



SEQUENCE LISTING

<110> George-Hyslop, Peter
Rommens, Johanna
Fraser, Paul

<120> GENETIC SEQUENCES AND PROTEINS RELATED TO ALZHEIMER'S DISEASE

<130> 1034/1F808US7

<140> US 09/689,159

<141> 2000-10-12

<150> US 08/509,359

<151> 1995-07-31

<160> 183

<170> PatentIn version 3.0

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<212> DNA

<213> Homo sapiens

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<222> (1)..(2791)

<223> where n may be either a or g or c or t/u, unknown or other

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Gly Leu Cys Leu Thr Leu Leu Leu Leu Ala Ile Phe Lys Lys Ala Leu
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Pro Ala Leu Pro Ile Ser Ile Thr Phe Gly Leu Val Phe Tyr Phe Ala
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Pro	Ala	Xaa	Pro	Ile	Ser
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 <211> 945
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)..(945)
 <223> where n may be either a or g or c or t/u, unknown or other

<400> 6	
gttntccnaa ccaacttagg agnttggacc tgggraagac cnacntgatc tccgggaggn	60
aaagactnca gttgagccgt gattgcaccc actttactcc aagcctgggc aaccaaagt	120

agacactggc tccaaacaca aaaacaaaaa caaaaaaaga gtaaattaat ttanagggaa	180
gnattaaata aataatagca cagttgatat aggttatggt aaaattataa aggtgggana	240
ttaatatcta atgtttggga gccatcacat tattctaaat aatgttttgg tggaaattat	300
tgtacatctt ttaaaatctg tgtaattttt tttcaggga gtgtttaaaa cctataacgt	360
tgctgtggac tacattactg ttncactcct gatctggaat tttggtgtgg tgggaatgat	420
ttccattcac tggaaagggt cacttcgact ccagcaggca tatctcatta tgattagtgc	480
cctcatgncc ctgktgttta tcaagtacct ccctgaatgg actgngtggc tcatcttggc	540
tgtgatttca gtatatggta aaaccaaga ctgataattt gtttgtcaca ggaatgcccc	600
actggagtggt tttctttcct catctcttta tcttgattta gagaaaatgg taacgtgtac	660
atcccataac tcttcagtaa atcattaatt agctatagta actttttcat ttgaagattt	720
cggctgggca tggtagctca tgctgtaat cttagcactt tgggaggctg aggcgggcag	780
atcacctaag ccagaggttc aagaccagcc tgggcaacat ggcaaaacct cgtatctaca	840
gaaaatacaa aaattagccg ggcattggtg tgcacacctg tagttccagc tacttaggag	900
gctgaggtgg gaggatcgat tgatcccagg aggtcaagnc tgcag	945

<210> 7

<211> 450

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)..(450)

<223> where n may be either a or g or c or t/u, unknown or other

<400> 7

gttgcaaagt catggattcc tttaggtagc tacattatca acctttttga gaataaaatg	60
aattgagagt gttacagtct aattctatat cacatgtaac ttttatttgg atatatcagt	120
aatagtgcctt tttttttttt tttttttttt tttttttttt tttggggana gagtctcgct	180
ctgtcgccag gttggagtgc aatggtgcga tcttggtcga ctgaaagctc caccncccg	240

gttcaagtga ttctcctgcc tcagccnccc aagtagntgg gactacaggg gtgcgccacc	300
acgcctggga taattttggg ntttttagta gagatggcgt ttcaccanct tggngcaggc	360
tggtcttgga actcctgana tcatgatctg cctgccttag cctccccaaa gtgctgggat	420
tncaggggtg agccactggt cctgggcctc	450

<210> 8
 <211> 516
 <212> DNA
 <213> Homo sapiens

 <220>
 <221> misc_feature
 <222> (1)..(516)
 <223> where n may be either a or g or c or t/u, unknown or other

<400> 8	
gctcatcatg cttcacgggg gaggtgtgc gggaagaatg ctccacaca gnataaagaa	60
tgctcccgca caggatagag aatgcccccg cacagcatag agaagcccc gcacagcata	120
gagaatgcc ccncacagca tagagaagcc cccgcacagc atagagaatg ctcttcacct	180
ctgggttttt aaccagccaa actaaaatca cagaggscma cacatcattt aagatagaaa	240
tttctgtatc ttttaattty tttcmaagta gttttactta ttttcagatt ctatttcttt	300
actagaatta agggataaaa taacaatgtg tgcataatga accctatgaa acmaacmmaa	360
gctagggttt tttcatagst cttcttccag attgaatgaa cgtctgttct aaaatttaac	420
cccccaggga aatattcagt taactatggt aaaaaccag acttgtgatt gagttttgcc	480
tgaaaatgct ttcataatta tgtgtgaatg tgtgtc	516

<210> 9
 <211> 1726
 <212> DNA
 <213> Homo sapiens

 <220>
 <221> misc_feature
 <222> (1)..(1726)
 <223> where n may be either a or g or c or t/u, unknown or other

<400> 9

ggatccctcc ccttttttaga ccatacaagg taacttccgg acgttgccat ggcattctgta	60
aactgtcatg gtgttggcgg ggagtgtctt ttagcatgct aatgtattat aattagcgta	120
tagtgagcag tgaggataac cagaggtcac tctcctcacc atcttggttt tgggtgggttt	180
tggccagctt ctttattgca accagtttta tcagcaagat ctttatgagc tgtatcttgt	240
gctgacttcc tatctcatcc cgnaactaag agtacctaac ctcttgcaaa ttgmagncca	300
gnaggctcttg gncttatttn acccagcccc tattcaarat agagtngytc ttggnccaaa	360
cgccyctgac acaaggattt taaagtctta ttaattaagg taagatagkt ccttgsatat	420
gtggtctgaa atcacagaaa gctgaatttg gaaaaagggtg cttggasctg cagccagtaa	480
acaagttttc atgcagggtgt cagtatttaa ggtacatctc aaaggataag tacaattgtg	540
tatgttggga tgaacagaga gaatggagca anccaagacc caggtaaaag agaggacctg	600
aatgccttca gtgaacaatg atagataatc tagactttta aactgcatac ttctgttaca	660
ttgttttttc ttgcttcagg ttttttagaac tcatagtgc gggctctgtt ttaatcccag	720
gtctaaccgt taccttgatt ctgctgagaa tctgatttac tgaaaatggt tttcttgtgc	780
ttatagaatg acaatagaga acggcaggag cacaacgaca gacggagcct tggccaccct	840
ganccattat ctaatggacg acccagggtta actcccggca ggtgggtggan caagatgagg	900
aagaagatga gganctgaca ttgaaatatg ncgscaagca tgtgatcatg ctctttgkcc	960
ctgtgactct ctgcatgggtg gtggtcgtgg ntaccattaa gtcagtcagc ttttataccc	1020
ggaaggatgg gcagctgtac gtatgagttt kgttttatta ttctcaaasc cagtgtggct	1080
tttctttaca gcatgtcatc atcaccttga aggcctctnc attgaagggg catgacttag	1140
ctggagagcc catcctctgt gatggtcagg agcagttgag agancgaggg gttattactt	1200
catgttttaa gtggagaaaa ggaacactgc agaagtatgt ttctgtatg gtattactgg	1260
atagggctga agttatgctg aattgaacac ataaattctt ttccacctca gggncattgg	1320
gcgcccattg ntcttctgcc tagaatatc tttcctttnc tnacttkggn ggattaaatt	1380

cctgtcatcc ccctcctctt ggtgttatat ataaagtntt ggtgccgcaa aagaagtagc	1440
actcgaatat aaaattttcc ttttaattct cagcaaggna agttacttct atatagaagg	1500
gtgcaccnt acagatggaa caatggcaag cgcacatttg ggacaaggga ggggaaagg	1560
ttcttatccc tgacacacgt ggtcccngct gntgtgtnt nccccactg antagggtta	1620
gactggacag gcttaaaacta attccaattg gntaatttaa agagaatnat ggggtgaatg	1680
ctttgggagg agtcaaggaa gagnaggtag naggttaactt gaatga	1726

<210> 10

<211> 1883

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)..(1883)

<223> where n may be either a or g or c or t/u, unknown or other

<400> 10

cncgtataaa agaccaacat tgccancnac aaccacaggc aagatcttct cctaccttcc	60
cccnnggtgt aataccaagt attcnccaat ttgtgataaa ctttcatttg aaagtgacca	120
ccctccttgg ttaatacatt gtctgtgcct gctttcacac tacagtagca cagttgagtg	180
tttgccttgg agaccatatg acccatagag cttaaaatat tcagtctggc tttttacaga	240
gatgtttctg actttgttaa tagaaaatca acccaactgg tttaaataat gcacatactt	300
tctctctcat agagtagtgc agaggtagnc agtccagatt agtasggtgg cttcacgttc	360
atccaaggac tcaatctcct tctttcttct ttagcttcta acctctagct tacttcaggg	420
tccaggctgg agccctascc ttcatttctg acagtaggaa ggagtagggg agaaaagaac	480
ataggacatg tcagcagaat tctctcctta gaagttccat acacaacaca tctccctaga	540
agtcattgcc cttacttggt ctcatagcca tcctaaatat aagggagtca gaagtaaagt	600
ctkkntggct gggaatattg gcacctggaa taaaaatggt tttctgtgaa tgagaaacaa	660
ggggaagatg gatatgtgac attatcttaa gacaactcca gttgcaatta ctctgcagat	720

gagaggcact aattataagc catattacct ttcttctgac aaccacttgt cagcccncgt	780
ggtttctgtg gcagaatctg gttcyatamc aagttcctaa taanctgtas ccnaaaaaat	840
ttgatgaggt attataatta tttcaatata aagcacccac tagatggagc cagtgtctgc	900
ttcacatggt aagtccttct ttccatatgt tagacatttt ctttgaagca atttttagagt	960
gtagctgttt ttctcagggt aaaaattctt agctaggatt ggtgagttgg ggaaaagtga	1020
cttataagat ncgaattgaa ttaagaaaaa gaaaattctg tggtggaggt ggtaatgtgg	1080
ktggtgatct ycattaacac tganctaggg ctttkgkggt tgktttattg tagaatctat	1140
accccatcca nagaagatac cgagactgtg ggccagagag ccttgcactc aattctgaat	1200
gctgccatca tgatcagngt cattgtwgtc atgactannc tcctgggtgg tcwgtataaa	1260
tacaggtgct ataaggtgag catgagacac agatctttgn tttccaccct gttcttctta	1320
tggttgggta ttcttgtcac agtaacttaa ctgatctagg aaagaaaaaa tgttttgtct	1380
tctagagata agttaatttt tagttttctt cctcctcact gtggaacatt caaaaaatac	1440
aaaaaggaag ccaggtgcat gtgtaatgcc aggctcagag gctgaggcag gaggatcgct	1500
tgggcccagg agttcacaag cagcttgggc aacgtagcaa gaccctgcct ctattaaaga	1560
aaacaaaaaa caaatattgg aagtatttta tatgcatgga atctatatgt catgaaaaaa	1620
ttagtgtaaa atatatatat tatgattagn tatcaagatt tagtgataat ttatgttatt	1680
ttgggatttc aatgcctttt taggccattg tctcaamaaa taaaagcaga aaacaaaaaa	1740
agttgtaact gaaaaataaa catttccata taatagcaca atctaagtgg gtttttgntt	1800
gtttgtttgn ttgttgaagc agggccttgc cctnycaccc aggntggagt gaagtgcagt	1860
ggcacgattt tggtcactg cag	1883

<210> 11
 <211> 823
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)..(823)

<223> where n may be either a or g or c or t/u, unknown or other

<400> 11

caggagtgga ctaggtaaat gnaagntggt ttaaagagag atgnggncng ggacatagtg	60
gtacacanct gtaatgctca nactkatgg ggagtactga agngngnsgg atcacttgng	120
ggtcnggaat ntgagancag cctgggcaan atggcgaaac cctgtctcta ctaaaaatag	180
ccanaawnwa gcctagcgtg gtggcgcrca cgcgtggttc cacctactca ggaggcntaa	240
gcacgagnan tncttgaacc caggaggcag aggntgtggt garctgagat cgtgccactg	300
cactccagtc tgggcgacma agtgagaccc tgtctccnnn aagaaaaaaaa aaatctgtac	360
tttttaaggg ttgtgggacc tgttaattat attgaaatgc ttctyttcta ggtcatccat	420
gcctggctta ttatatcatc tctattgttg ctgctctttt ttacattcat ttacttgggg	480
taagttgtga aatttgggggt ctgtctttca gaattaacta cctnngtgct gtgtagctat	540
catttaaagc catgtacttt gntgatgaat tactctgaag ttttaattgt ntccacatat	600
aggtcatact tggtatataa aagactagnc agtattacta attgagacat tcttctgtng	660
ctcctngctt ataataagta gaactgaaag naacttaaga ctacagttaa ttctaagcct	720
ttggggaagg attatatagc cttctagtag gaagtcttgt gcnatcagaa tgtttntaaa	780
gaaagggtnt caaggaatng tataaanacc aaaaataatt gat	823

<210> 12

<211> 736

<212> DNA

<213> Homo sapiens

<400> 12

gtctttccca tcttctccac agagtttgtg ctttacatta ttactccttg ccattttcaa	60
gaaagcattg tcagctcttc caatctccat cacctttggg cttgttttct actttgccac	120
agattatctt gtacagcctt ttatggacca attagcattc catcaatttt atatctagca	180
tatttgcggt tagaatccca tggatgtttc ttctttgact ataacaaaat ctggggagga	240
caaagggtgat ttctgtgtc cacatctaac aaatcaagat ccccggtgg acttttggag	300

gttccttcca agtcttcctg accaccttgc actattggac tttggaagga ggtgcctata	360
gaaaacgatt ttgaacatac ttcacgcag tggactgtgt cctcggtgca gaaactacca	420
gatttgaggg acgaggtcaa ggagatatga taggcccga agttgctgtg ccccatcagc	480
agcttgacgc gtggtcacag gacgattttc actgacactg cgaactctca ggactaccgt	540
taccaagagg ttaggtgaag tggtttaaac caaacggaac tcttcattct aaactacacg	600
ttgaaaatca acccaataat tctgtattaa ctgaattctg aacttttcag gaggtactgt	660
gaggaagagc aggcaccacc agcagaatgg ggaatggaga ggtgggcagg ggttccagct	720
tccctttgat tttttg	736

<210> 13

<211> 893

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)..(893)

<223> where n may be either a or g or c or t/u, unknown or other

<400> 13

ggatccgccc gccttggcct cccaaagtgc tgggattaca ggcattgagcc accgctcctg	60
gctgagctctg cgatttcttg ccagctctac ccagttgtgt catcttaagc aagtcactga	120
acttctctgg attcccttct cctnnwgtaa aataagnatg ttatctgncc nncctgcctt	180
gggcattgtg ataaggataa gatgacatta tagaatntng caaaattaaa agcgctagac	240
aatgatttt atgaaaatat aaagattagn ttgagtttgg gccagcatag aaaaaggaat	300
gttgagaaca ttcenttaag gattactcaa gcycctctt tgstgknwaa tcaganngtc	360
atnnamntat cntntgtggg ytgaaaatgt ttggttgtct caggcggttc ctacttattg	420
ctaaagagtc ctaccttgag cttatagtaa atttgtcagt tagttgaaag tcgtgacaaa	480
ttaatacatt cctgggtttac aaattggtct tataagtatt tgattggtnt aaatgnattt	540
actaggattt aactaacaat ggatgacctg gtgaaatcct atttcagacc taatctggga	600

gcctgcaagt gacaacagcc tttgcggtcc ttagacagct tggcctggag gagaacacat	660
gaaagaaagg tttgtttctg cttaatgtaa tctatggaag tgttttttat aacagtataa	720
ttgtagtgca caaagttctg tttttctttc ctttttcaga acctcaagag gctttgtttt	780
ctgtgaaaca gtattttctat acagtntgct ccaantgnac agagttacct gcacnncggt	840
gtccntactt ccagaatgca cagatgtctg aggacaacca cctgagcaat act	893

<210> 14
 <211> 475
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)..(475)
 <223> where n may be either a or g or c or t/u, unknown or other

<400> 14	
tcagaaaata ctttngggca catgagaatc acatgagaac aagctgatgc ataattcctc	60
ctgtgatgga atgtaatagt aatttaacag tgtcctttct ttttaactgc ctcaaggata	120
cagcaaaaata aaacaaaagc aatatgaagg ctgagaatag gtatcagatt atcataaaaa	180
gtatagatca aaaggaatct ggtkctnagg ttggcgcagc agcctctaga agcgacnagg	240
gagactttta gaactaccat tctcctctat aagtggatcc nangcccagg raaacttgat	300
attgagnaca atggccttac tgaaataacc tgtgatccac tcggnctcat catctccacc	360
accaccataa atttgatgag tncctataat attccancca gnggaaatac ctggragggt	420
actgaaaggc nacnatcaga cnaaaataaa gnataccgta ggtaaattct acagt	475

<210> 15
 <211> 180
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)..(180)
 <223> where n may be either a or g or c or t/u, unknown or other

<400> 15
 gttctcnaga tctcttcaaa attcatntg cgctatagga gctgggatta ccgcgggtgc 60
 tggaaccaga cttgcnctcc aatggatcct ccanaengga nggggggtgg actcacacca 120
 ttacagggg gctcgtaaag aatcctgttt tgantattnt nccgtcaatt accnccccaa 180

<210> 16
 <211> 457
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)..(457)
 <223> where n may be either a or g or c or t/u, unknown or other

<400> 16
 aatgtaacma cmaaaccyca aactcctgna agaanaatggt tacttatnga tnccatttnc 60
 tttttncact ctcagacata aatataaacm mantttctac tgtgggraaaa catctncagg 120
 ggnentttan ccatgatctc tagnacnang ggctngtggn tngttttaat gtctctaagc 180
 nactngacta gtttctcttn cactgagnaa actgcnacaa gtnnttnctn ctgnatctgn 240
 actgnaatgc taagttncaa gtnccaatga gctngtgant tanyctttat ttnamcnaaa 300
 gtnnttaatc anccncagtg ttactttgna aagctnctcc ctggacaggc ggcccnactt 360
 ctaatgttat gaatgggctg gagnancctc nachtgaagt tnnwaaggnt caacanccaa 420
 trgnaantgt amccgactct aaattccaac cnataat 457

<210> 17
 <211> 373
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)..(373)
 <223> where n may be either a or g or c or t/u, unknown or other

<400> 17
atctgtgcta ggtagtgtac taatcattca gtttatctca tttaatctnn atgnaactct 60
aagtcattcg cntngancna cacataacag atctcgcaac tgnagttag cgaggccagt 120
taatttkcca aagntcataa tnctaagnag ttctagnatg gagattcmaa gtcnactgt 180
ttagtcaaga gaccctactg ttaactagta cctttacact actaactggg taanccataa 240
ncaattaatg ataaagattg agattactkc cacattctca ctgggtataa attaaaacnt 300
caaataaaaa ntcttggcac ttctatggta atatTTTTat taggataaac tttcaagnag 360
tggatnctag gtg 373

<210> 18
<211> 422
<212> DNA
<213> Homo sapiens
<220>
<221> misc_feature
<222> (1)..(422)
<223> where n may be either a or g or c or t/u, unknown or other

<400> 18
cccacactgn tgggccatgg aagccatgag tgtaccacat ggccctgtcc cactggccac 60
agtnattggg ttggnctggg agtagtcacc tgattcaagn tgggccaatc agatcctacc 120
tccanggggt tnggaattag aaaacagtga ccctagyttag tntaggcnac ttgaactgga 180
gggcccatac attcaggagc cttatggggc catgtacaca tggaagcagg aagantgaag 240
gagggagaag tagaggccag aaaccacact gggttcctgt ttcccaatgn taagtcctg 300
ccatgtycct gctcttcctg tggttnggat cttcaaagggt tgctcaaatt nggggcagtg 360
gccctggcag cttttcaaatt cctyccatt tttattgaag ctgaaagacc cttgactaga 420
ac 422

<210> 19
<211> 395
<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)..(395)

<223> where n may be either a or g or c or t/u, unknown or other

<400> 19

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attgttattt ttcgtcacta cctccccggg tcgggagtgg gtaatttgcg cgctgctgc      60
cttccttgga tgtggtagcc gtttctcagg ctccctctcc ggaatcgaac cctgattccc    120
cgtcacccgt ggtcaccatg gttaggcacg gcgactacca tcgaaagtta atagggcaga    180
tctcgagaat tctcgagatc tccntcmaat tattacttca nttkcggtag tgatcagnac    240
naggcagttc tattgatttc tctcctttca ttctgagttt ctccataaat taattggacc    300
taatcatggt tknaatcctg tcttttaggg ggnanttgn ctncaagtg tttaaaggga    360
gggncggagn atgattntgg attggagtga gagca                                395
```

<210> 20

<211> 487

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)..(487)

<223> where n may be either a or g or c or t/u, unknown or other

<400> 20

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cagantttct gggtnaaaag gacctnanac ataatatagt ggacttncaa taaacactta      60
ccaaatggan aaatgaaccc ctggtcaccc cgatctcact agtnccctncc ctgaaacccg    120
ananatctga gtccttttct cctttactaa cccttnctcc aatcctgctc atgggaatta    180
angntgtaaa atangcctgg ggnacctcgg rcctctnccc tgggntctgt ggggtgggagn    240
actgtggaag ccgtwtcaat cgccccacc tatgagagcc tttctncagg gccagccatg     300
aacgtcccc atgtnatcag natctncagg ctactgctgt ccttcytgga twtttaacct     360
ggrggcgggc cagggacaga aaarggaggt ggcaagatcc ttgaacaaaa ggagctataa    420
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aagggcgcttg ggggaagcaa ggcaaacggc agattaaaca agcaggcacc tcaaggaaac 480
 gtgacgc 487

<210> 21
 <211> 500
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)..(500)
 <223> where n may be either a or g or c or t/u, unknown or other

<400> 21
 ctcgagatct ggcccatcat ttagttttat ngcttgnagt ntntagnaga taaaacatcc 60
 acgtggatct nctcttagag aaatcaanta ctttaggnat ntgatagtca gagantggnt 120
 atcaaatnga aaggnatntn ggtngancag ttagttnngyn ccnttngnng agaccactgg 180
 gntgtngasa ccagattcmk gggtnчнаат cttanggtaa tctnagagcc aacacatggg 240
 tcatnttats ccccaaactt agccacatct bgtggggyta tggngtcacc ccaagagcag 300
 gaggagcatg gntggatgga aatccatctc caccactgga accccaawtt ctgaatgnat 360
 cacctgttag agtttcttgt ycataaaaata gcagggaatt taggaattta gttttttttt 420
 aatagtttgg gcctttttatc cacactctca ggagcttagg atacttttct ccttcagctc 480
 actctgaaac tccctctgga 500

<210> 22
 <211> 406
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)..(406)
 <223> where n may be either a or g or c or t/u, unknown or other

<400> 22

tcgagatctg tggtagnac atgatattct ggcamctact ttcattatca cctttattaa	60
aataaattta aagaaaaatg gcagtatgtt tctgtgragn ccacgagtac tcattttaaa	120
ggactcmaga gttncagrna agtaaaaagr aaagagtaaa atcattttct aantytywyy	180
ttccagaaat aacgatgttg agcattaagt ggacttcatt tcatactctt tcmagnntta	240
tgtaggcata wawatgtgtg tgtatataca tatatatggg tacatcctta gagaagttgg	300
ctggctagat agacacacnt naaaaatggr atcatactct aatkccattt nnantttana	360
aaatacatat tcagancnc tgncttata nacagagtaa ntgaaa	406

<210> 23
 <211> 289
 <212> DNA
 <213> Homo sapiens

<400> 23	
gaccagtaa aacttatctc atgagcataa ggctgaatgg gattgacagc ctacagaacc	60
cggattttat catgagggca ttagtggggg ttgggggtta ggtactgaaa gtttaaggag	120
gtgaaaggaa agcaacttgt gccttacagg gtcaagctag gtcaaggaaa ttcccaggag	180
cgtgtggaag ctctctacct gataggtgag ctcaagctta tgaccgccca agcttctccc	240
caagcttccc ttccactgct tcctcttgat tgacttccac agcaaggtc	289

<210> 24
 <211> 367
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)..(367)
 <223> where n may be either a or g or c or t/u, unknown or other

<400> 24	
ccatcaggat ttactgagta aaaatctcag gtnttaacca tgcccctaaa atgtgctatn	60
ccaaagagga acaggttact tgggaggaaa aaagctgcct gggnaactcc ccncaaagt	120
ttattttaaa taaaaatggg ngatggaaat atttntnaaa agaacttggg gtntaatatg	180

gnatactgcc catcaaaca	aaaaggaaat	aaaacttent	tcccatttat	aataagttnc	240
ccacccttta ctatcaagat	tacaacttat	tgacctttta	tgctngctng	gtttttttgg	300
gactgcctaa tccaatgttt	aaattttcta	ngtctgnatt	tcaatgtggg	taggagtnat	360
ttttcaa					367

<210> 25
 <211> 425
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)..(425)
 <223> where n may be either a or g or c or t/u, unknown or other

<400> 25	
gagtatctga caggtaagat	tgcttttttaa agttgtttta
aatgcattac atgactgaga	60
aaagaaaaat gcacatttta	ttgttgcagt ttaaaatttc
atttngngtg aaactaaacg	120
tgaaacaaaa gggataaatg	tgttttgntt ttgttttgg
ttacctgtt tggggtat	180
ttttctgagt ttgtgtagaa	accctgtgtg ntacactggg
taatcttgtc agggntacma	240
amcttgggtc ttgannttgg	ttanttggn
ttanttggtg naccatgta	cttgctcttc
300	
cntcccagaa acatagcttg	gtaggnagg gttaanccag
tgtcggcgan cccatgtccc	360
tancacagca tcttgtaagt	ttaatgcaca atcgttc
ccnt cccaggatgg	anttattcatt
420	
ataaa	425

<210> 26
 <211> 2377
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)..(2377)
 <223> where n may be either a or g or c or t/u, unknown or other

<400> 26

gagaggcgca	ggagccacaa	ataaagcaag	agccagaatc	agaagnggag	gaagaagaaa	60
agcaagaaaa	agragraana	cgagaagaac	ccatggraga	ggaagaggan	ccagancmaa	120
agccttgtct	gaaacctact	ctgaggccca	tcagctctgc	tccatctgtt	tcctctgcca	180
gtggnaatgc	nacacctaac	actcctgggg	atgagtcctc	ctgtgggtatt	attattcctc	240
atgraaactc	accagatcaa	cagcaacctg	aggagcatag	gccmaaaata	ggactaagtc	300
ttaaactggg	tgcttccaat	agtccctgggc	agcctaattc	tgtgaagaga	aagaaactac	360
ctgtagatag	tgtctttaac	aaatttgagg	atgaagacag	tgatgacgta	ccccgaaaaa	420
ggaaactggg	tccttgggat	tatgggtgaag	atgataaaaa	tncaacccaa	ggcactgtaa	480
acactgaaga	aaagcgtaaa	cacattaaga	gtctcattga	gaaaatccct	acagccaaac	540
ctgagctctt	cgcttatccc	ctggattggg	ctattgtgga	ttctatactg	atggaacgtc	600
gaattagacc	atggattaat	aagaaaatca	tagaatatat	aggtgaagaa	gaagctacat	660
tagttgattt	ngtttgttct	aaggttatgg	ctcatagtnc	accccagagc	attttagatg	720
atgttgccat	ggtacttgat	gaagaagcag	aagtttttat	agtcaaaatg	tggagattat	780
tgatatatga	aacagaagcc	aagaaaattg	gtcttgtgaa	gtaaaaacttt	ttatatattag	840
agttccattt	cagattttctt	ctttgccacc	cttttaagga	cttkgaattt	ttctttgtct	900
tkgaagacat	tgtgagatct	gtaatttttt	ttttttgtag	aaaatgtgaa	ttttttgggc	960
ctctaatttg	ttgttgccct	gtgtactccc	ttgggtgtaa	agtcactctga	atccttgggt	1020
ctctttatac	tcaccaggta	caaattactg	gtatgtttta	taagccgcag	ctactgtaca	1080
cagcctatct	gatataatct	tgttctgctg	atttgtttct	tgtaaatatt	aaaacgactc	1140
cccaattatt	ttgcagaatt	gcacttaata	ttgaaatgta	ctgtatagga	accaacatga	1200
acaattttta	ttgaaaacac	cagtcaccaa	ctattaccac	ccccactctc	ttttcatcag	1260
aatggcaag	cccttgtgaa	ggcatggagt	ttaaaattgg	aatgcaaaaa	ttagcagaca	1320
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taaaggaaaa	gtggtactgt	tccaacctga	aatgtctggt	ataattaggt	tattagtttc	1500
ccagagcatg	gtgttctcgt	gtcgtgagca	atgtgggttg	ctaactgtat	ggggttttct	1560
tattaataag	atggctgctt	cagcttctct	tttaaaggaa	tgtggatcat	agtgattttt	1620
ccttttaatt	ttattgctca	gaaatgaggc	atatccctaa	aaatctcgga	gagctgtatt	1680
taatgcattt	ttgcactaat	tggtccttag	tttaattcta	ttgtatctgt	ttatttaaca	1740
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gaaataaaat	taggcaaatt	gacagacagt	gagagtttta	caaacatgat	aggtattctg	1860
ctcggcaatt	tgtaagttta	catgttattt	aaggataaag	gtaaatcatt	caaggcagtt	1920
accaaccact	aactatttgt	tttcattttt	gtcttgtaga	aggtttatat	cttgttttac	1980
cttggctcat	tagtgtttaa	aaatgtactg	atgatgtgct	tagagaaatt	cctgggggctt	2040
tcttcgttgt	agatcagaat	ttcaccaggg	agtaaaatta	cctgaaaacg	taagaagttt	2100
taaacagctt	tccacacaaa	ttagatgcaa	ctgttcccat	gtctgaggta	cttatttaaa	2160
agaaaggtaa	agattggcct	gttagaaaaa	gcataatgtg	agctttggat	tactggattt	2220
tttttttttt	taaacacacc	tggagaggac	atttgaaaac	actgttctta	ccctcgaacc	2280
ctgatgtggt	tccattatgt	aaatatttca	aatattaaaa	atgtatatat	ttgaaaaaaa	2340
aaaaaaaaaa	aaaattcctg	cggccgcaag	ggaattc			2377

<210> 27

<211> 489

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)..(489)

<223> where n may be either a or g or c or t/u, unknown or other

<400> 27

attggagctc	caccgcggtg	gcggccgctc	tagnaactag	tggatcccc	gggctgcagg	60
------------	------------	------------	------------	-----------	------------	----

aattctcgag	atctccccca	agtaaataag	tgaaaaaaag	aacagcaaca	atagagatga	120
------------	------------	------------	------------	------------	------------	-----

tataataagc cagggcatgga tgaccttata gcaccctgta tttatacaga accaccagga	180
ggatagtcac gacaacnatg aactgatca tgatnccagc attcagaatt gagtnccagg	240
ctctctggcc cacagtctcg gtatcttctg tgnatggggt atagattarc tgtccatcct	300
tccgggnata aaanctgact gacttaatgg tanccacgac caccacccat kcagagagtc	360
acagggacma aagagcatga tcaacatgct tggcnccata tttcaatntc anctcctcat	420
cttcttcctc atcttnctcc accacctncc gggagttaac cctgggggtcg tccattagat	480
aatggctca	489

<210> 28
 <211> 2307
 <212> DNA
 <213> Homo sapiens

<400> 28	
aggggtgcttc agtgtggctg acacagcagc atgggtcttga caagttttct tcctcctacc	60
acaaaatccc agttggtaat agagacttta ctccctaccta tcaaaaccac aaaatgtccc	120
attagggggg gacatgttgt acatgttagg atcattcaaa taaccaagat tataaggtga	180
ggaaagatgc ccctaactga ttcttttgtc tctcatcttg ttgggtccag ggaccgagtg	240
gggtcaatct tctggtssstg cctctccagg tctcttccag gccggtcata gacgtactcc	300
ctctgaggcc gaccgatggt tagaagagggt gtctaagagc gtccgggctc agcagcccca	360
ggcctcagct gctcctctgc agccagttct ccagcctcct ccacccactg ccatctccca	420
gccagcatca cctttccaag ggaatgcatt cctcacctct cagcctgtgc cagtgggtgt	480
ggccccagcc ctgcaaccag cctttgtccc tgcccagtcc tatcctgtgg ccaatggaat	540
gccctatcca gccctaatg tgccctgtgg gggcatcact ccctcccaga tgggtggccaa	600
cgtwtttggc actgcaggcc accctcaggc tgcccatccc catcagtcac ccagcctgggt	660
caggcagcag acattccctc actacgaggc aagcagtgt accaccagtc ccttctttaa	720
gcctcctgct cagcacctca acggttctgc agctttcaat ggtgtagatg atggcagggt	780
ggcctcagca gacaggcata cagagggttcc tacaggcacc tgcccagtgg atccttttga	840

agcccagtg	gctgcattag	aaaataagtc	caagcagcgt	actaatccct	cccctaccaa	900
ccctttctcc	agtgacttac	agaagacgtt	tgaaattgaa	ctttaagcaa	tcattatggc	960
tatgtatctt	gtccatacca	gacagggagc	agggggtagc	ggtcaaagga	gcmaaacaga	1020
ytttgtctcc	tgattagtag	tcttttctact	aatcccaaag	gtcccaagga	acaagtccag	1080
gcccagagta	ctgtgagggg	tgattttgaa	agacatggga	aaaagcattc	ctagagaaaa	1140
gctgccttgc	aattaggcta	aagaagtcaa	ggaaatgttg	ctttctgtac	tccctcttcc	1200
cttaccocct	tacaaatctc	tggcaacaga	gaggcaaagt	atctgaacaa	gaatctatat	1260
tccaagcaca	tttactgaaa	tgtaaaacac	aacaggaagc	aaagcaatgt	ccctttgttt	1320
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tttgtgctca	ggctgggaac	agagaggcac	gctatgctgc	cagaattccc	aggagggcat	1440
atcagcaact	gcccagcaga	gctatatttt	ggggggagaag	ttgagcttcc	attttgagta	1500
acagaataaa	tattatatat	atcaaaagcc	aaaatcttta	tttttatgca	tttagaatat	1560
tttaaatagt	tctcagatat	taagaagttg	tatgagttgt	aagtaatctt	gccaaaggta	1620
aaggggctag	ttgtaagaaa	ttgtacatra	gattgattta	tcattgatgc	ctactgaaat	1680
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tcattgtaag	tagcacattg	caacaacaat	catgcttatg	accaatacag	tcactagggt	1800
gtagtttttt	ttaaataaag	gaaaagcagt	attgtcctgg	ttttaaacct	atgatggaat	1860
tctaattgtca	ttattttta	ggaatcaatc	gaaatatgct	ctatagagaa	tatatctttt	1920
atatattgct	gcagtttcct	tatgttaatc	ctttaacact	aaggtaacat	gacataatca	1980
taccatagaa	gggaacacag	gttaccatat	tggtttgtaa	tatgggtctt	ggtgggtttt	2040
gttttatcct	ttaaattttg	ttcccatgag	ttttgtgggg	atggggattc	tgggttttatt	2100
agctttgtgt	gtgtcctctt	cccccaaacc	cccttttggt	gagaacatcc	ccttgacagt	2160
tgcagcctct	tgacctcgga	taacaataag	agagctcatc	tcattttttac	ttttgaacgt	2220
tggcgcttac	aatcaaagt	aagttatata	tatttgtact	gatgaaaatt	tataatctgc	2280

tttaacaaaa ataaatgttc atggtag

2307

<210> 29

<211> 343

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)..(343)

<223> where n may be either a or g or c or t/u, unknown or other

<400> 29

ggcagctatt tacatggcct cacagggcatc agctgaaaag aggacccmaa aagaaattgg 60

agatattgct ggtgttgctg atgttacaat cagrcagttc tatagactga tctatcctcg 120

agccccagat ctgttcctta cagacttcma attkgacacc ccagtggaca aactaccaca 180

gctataaatt gaggcagyta acgtcmaatt cttgannacm aaacttkncc tgttgtacat 240

agcctatacm aaatgctggg ttgagccttt cataaggnaa aacmnaagac atggntacgc 300

attccagggc tkgantactt attgcttggc attccttgtat gta 343

<210> 30

<211> 363

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)..(363)

<223> where n may be either a or g or c or t/u, unknown or other

<400> 30

aaaggggctaa ccagccactg caccaaaatt agtccttaca ttataatact ctggccattg 60

gaagagaaaa atgggaaaat tcaacaattt gaaagactat gatccctctg gctcatgac 120

tactgaccag aatgaagtcc tgaaggattt ctttctgtta tgttatctac ccagctaadc 180

tcaaacaaga ggagctggaa agaacaaagc cccatgaagc tacccttaga cccagaaagc 240

caagaacagg gccaagaaaa tgaacagcag acaagcctga aatagaagtg gnacagacat 300

gtggnaagac caagtacacc cagttnggtg gtaaagattc cgatatcaag cttatcgata 360
ccg 363

<210> 31
<211> 362
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)..(362)
<223> where n may be either a or g or c or t/u, unknown or other

<400> 31
agtacatggg ttcttgncca ccccasccac ctttccccat ctctaccggy tgatagtctc 60
tcagntagta gaccttttct ngtttagrca gggccacntt tttaaaaact ccagacgggt 120
accctccatg tkgmaggcga cgtggccctg gatcactcaa ctgantgtca tnkgantggg 180
gccccagag tgaggacaat ggtgnagccc tctaaggcc ctncctgagt gtccttcctt 240
catgaagatg attctgaggn ttcccaggcc tncacccttc ttkgaaarcc catagnagtt 300
catatgnact nctctnctat gctcaccaaa ctctnccttc atcatacttg ggggatgtgt 360
gt 362

<210> 32
<211> 475
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)..(475)
<223> where n may be either a or g or c or t/u, unknown or other

<400> 32
gtgcatgtaa ttacagttac gatatatgaa acgtacaaaa tattatgagt atataatatg 60
gggagactta atctagtttg ggggatcagg gcacatttct ctaagaaagt gacatttgaa 120

ttgagctctg aaggataaat agacattacc cagaagaata aaatgatggg gaagaaggag	180
gacattttcc gtagatttcc agtggcccn cttgatccct tatccactca tccactnagga	240
ggatattaaa tkctatagaa atggragraa gacmmaaaga gaccctnata tctcgagagg	300
atccagcmaa attccaagag acacaacawt aagaaactng gaaggaagag aaaaggcmmn	360
nnaggnaaaa gaaagacaag gaaattnwnn nagnacggag agaaagagag agggagcgtn	420
naagggnacg agaaaggcga gnacggggac gagaaagggn aagagnacgt aaacg	475

<210> 33
 <211> 346
 <212> DNA
 <213> Homo sapiens

 <220>
 <221> misc_feature
 <222> (1)..(346)
 <223> where n may be either a or g or c or t/u, unknown or other

<400> 33	
ggaaataaat gagatctcag tgggtggatg gattggactg atctctgtaa ctgtgtntgg	60
aaaaaggacc ggaaaatgaa agccagatcc cagtaagggg tagagagggg ccaagagaac	120
tgaacatctg ggctgccgga gaaatcaaag tctaggaagt aagaggtaag agtgtactac	180
aggggacata cccaatctc ttggttccct ccctctnccct tcctctccca gagacccagg	240
tccttgggac tatnttggat ctgtctctga agctgaaaaa caaaaggcag aggagacagt	300
cggntctaag tgaccaatct caagccagct tggtcagaan tcctaa	346

<210> 34
 <211> 433
 <212> DNA
 <213> Homo sapiens

 <220>
 <221> misc_feature
 <222> (1)..(433)
 <223> where n may be either a or g or c or t/u, unknown or other

<400> 34
 aaatccagtg caggcaacat tatgtggaaa tagaaacagg gctcctgcta ggagattgan 60
 attctggctt tcctttggaa ccctcactg actcatcgcc cctgaancag ganccancag 120
 gtnccaaggc tcccctgctc ctntccctnc cccagggcga gataggaarc cggaarcctg 180
 ggcaggctga rcccanccga ctggaaccag ggnagancct gtgggtgggt ggnagggagg 240
 gaaggaggcc agattcctcc agaactgggg ragagaacag gttttggaag ttgggggagg 300
 gtttggtttt cacagtgatg gtttcatgan accctggagg gttncacact cctggtkcan 360
 ttttgntant cgtnccttga anacarnccg cttcctttca accctccnnc taaaaagttt 420
 tgatntttta agg 433

<210> 35
 <211> 350
 <212> DNA
 <213> Homo sapiens
 <220>
 <221> misc_feature
 <222> (1)..(350)
 <223> where n may be either a or g or c or t/u, unknown or other

<400> 35
 accaagagcc cccagtttat gntaactctc atgacaaaca caattttagt acctctcact 60
 accaactatc caggaaccag gantcaccta ttactacggt tccagcagaa tgggaatccc 120
 attctcggat atccagggtg aatccctgac catgtgagag gaatcctagt gcccacaaca 180
 cctcaccccc tgactcctcc tcaanggctc tgccaagtca acaaaaaaat cctctacatt 240
 tacactatct gtaaagccaa agaccagcgt caacctaaat gtccatcaat aagggaatgg 300
 ttggataagt aaaaattatg cagctgtagg aaggaatgaa gaatgtctat 350

<210> 36
 <211> 512
 <212> DNA
 <213> Homo sapiens

<220>

<221> misc_feature
 <222> (1)..(512)
 <223> where n may be either a or g or c or t/u, unknown or other

<400> 36
 aaaggaaca aaagctggta ccgggcccc cctcgaggtc gacggtatcg ataagctgga 60
 tatcgaatcc tcgagatcta cctaaaaaaa aaaaattaac ttcccaaatag tgggagtcta 120
 ctctgttccc tcctngtntt tattnctgtn tacttttycta anatgggttaa aatgtgtaan 180
 caatatgtgt ccttnnactn kggkgtgaac attttttycta ttataaatyc twagaaaata 240
 ttncatggn tatgagatat tkgattccaa gtgcctkgta atttactyct caaatgtccc 300
 tgatgtkga nattkgttnc tagtggttyca ctatttaaaa aaacagnaat atctgtctnt 360
 atgctnagag cttntytagt ttycaaatta ttnccttagg gtaaaatcct agaagtagaa 420
 tttttggggc aaattatcta catatttata attgtcttgg tattccaaat ctcgttttcc 480
 aaaagcttat atcaatttgt acttaacacc ag 512

<210> 37
 <211> 450
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)..(450)
 <223> where n may be either a or g or c or t/u, unknown or other

<400> 37
 atttaagatg actggggggtc tctncctaata ccataactcc actggagagg anaagtggga 60
 aaggttggtc tagttarggt ngntggggac cctcccaaga gctgnagaag cagagataag 120
 nagagcctnc tnctaaatcc acatggncct yccaaggntc tcatcctcta ggacctacca 180
 ctncctcagtc tacttacttg tctyctgana tgctttctng aggggnagaa aacaaaggaa 240
 gagtaataac aagcagnaga aactgcagag aatgnaaaat aagtccatag gagaatgttg 300
 naaatagaat catccncctt tacatattgt cactccagga aaactgccaa gaaccactca 360

ttcctctaga tacamttcct gtaggatccy cccagacttc ctcccttaag cacgtcagta	420
ttctccttat tctcccttca tttcaaccct	450

<210> 38
 <211> 766
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)..(766)
 <223> where n may be either a or g or c or t/u, unknown or other

<400> 38	
cgagatctgc cccagcccac atttcctttg ttgaatgagt agagaagact gagaagtatc	60
actcaccctg gatgtggttt gtcccttttc cagccagtgt gttggaata aaagtcacct	120
ttcagagctt tgggtccctg aatgcccgtc tttcctgtgt ccaggaataa cctttgntac	180
taggcagtcc tctgaaagat ttgtagaagg ttaaagtggg aagggaactg gaagctcata	240
gaatccatgc ctcttctttt agcatcaagg aattagaagt cctgagagat gaagaatgtt	300
gtcttcccaa ctcaaaccct tttcttgaag ccatttcctt gggtactgna ttggccacaa	360
cccttccccc ttgntatcct catcctgcta atgctgtttt taatggcctg ccagtctgga	420
tttgtctttg gcaaccaaac aattttgctt cacaagattc ctacttaagg gaagagaggg	480
gtccttcatt tntcacttgt acaagagcag ggctggtcag ctttacacag gtgtcagatg	540
aaccgtcaca anccagantt ncatggtggc ctcaggaggg cttcnaggtc caacatctcg	600
acgtaaggag cggtccctg tctttcatgc tcagataaca gtnctaactn cagctgtttc	660
atcccnatc cctanttgag gtcttaacat ctattccatt ttkccnagma ggggtatnct	720
gttaaccctc tncaccagan ttaganctga ctgatncact tcctag	766

<210> 39
 <211> 327
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)..(327)
 <223> where n may be either a or g or c or t/u, unknown or other

<400> 39
 tcatacttgt atagttcknt aagataatca ctctctcact cagacatnng gngrarngcc 60
 cntcgatcac ttggganagg ngacttgcm a tgtttaatga ttgtcanccm nanaantaag 120
 ctnacagggc aaaaacagcc tyangtcagt tctntctccc taatcctcta graknaaatc 180
 nnawrntrnn actctgnntc tgtgccatna nanatnttnc anttgtatnt atgnactcca 240
 catngagtac acctcactaa wtntnctnct gggnaacncc cscmccantt tttntttgnt 300
 gananacarc aatgctggca tacngtg 327

<210> 40
 <211> 431
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)..(431)
 <223> where n may be either a or g or c or t/u, unknown or other

<400> 40
 ccagactttc ataactngtg ttattatgaa gattagagtn ctgaagctta ctggattaga 60
 agagnacgag ggggtagctg ccccaatata ttctaatttc tctkgaggac caccaaantg 120
 gmagagtgtc tctgataggg aaaaggaaga gttggaaggn atcttagcct ctagganaaa 180
 agaaccatnt ttattggcca ccaaagttac atctagtkgc ctacaaatnt atntccaaac 240
 tccttatcct gccaatcag ggtcctgnaa actgatgcc aactatagtt tagtctncta 300
 tcacatgact gcattataca tacccaatta tctgggmaaa cagacctgat ccaaacacag 360
 ttkggtnctt tccttnctt nccttkgttt agcctgtycc gtctactngg ggtgtcttkg 420
 atttgctcca g 431

<210> 41
 <211> 276
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)..(276)
 <223> where n may be either a or g or c or t/u, unknown or other

<400> 41
 tttttttcca ccagacttac caaatTTtag atgnatggaa gaactgtaaa tncccataaa 60
 gntaatctat ncatngaccc ccaccattat gatagagatc atntgggtgan taatgaaaga 120
 tgaaactctc agctgggaaa gtaanaagga ataggatgta agtatgagct cctgtttttt 180
 attatnttta tggatgcccc ctcaaaaaa tatgnaangg ggtaactgac tnggaaatgg 240
 gtnttttatg natagtaagt cccactcacg aggttt 276

<210> 42
 <211> 270
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)..(270)
 <223> where n may be either a or g or c or t/u, unknown or other

<400> 42
 tcgagatcta aagcagatgn agacttttnc cnaaataaat ttactgcttt ttttyctgtga 60
 nataagttnc gagaaggaaa gctttkgatt nctrnatgag tycagtggat tatyctnagn 120
 actagagtkg nkgtkgaagn catggnacat ttatatagwt ywttcagttc tacactaaat 180
 gatggaagaa tgagaaatcc tatatgacaa atagaaaagt ycatyctyca taattgagaa 240
 cattgagcag ttggattacc aagatctcga 270

<210> 43
 <211> 580
 <212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)..(580)

<223> where n may be either a or g or c or t/u, unknown or other

<400> 43

cttagtttta gactagtttc attatactac cagtttctaa tatgttggtt ttttattcac	60
tatttgatat atttgtttta atatatgttc ttgttttagc aggtaaaaga atcataacaa	120
atgttttttaa aagaacatta ttattcttta ataactgtct ttttatgcat ttggcatgcc	180
aacttttttc attaacatct tgggtatttt ataaaaagag ggaaagctca atgtttaaca	240
ggtagctttt cttaggagct aaattaaata tttaacaaat ctccctccct tcncccttcc	300
ccatccctca aagnatgggt gnanntatct ttaacttttg ggctngcatc cntgnaagct	360
tatggntant catagtctna cmaaactagg gtcaccnaac ttggcagcag aaataatcta	420
gtcttactgt gataactacc caattacttt attatttttc cagttncagt tccaaatggt	480
ttgtggnaan aatttttnct gtttgtgatt ttccaagctt agagggggaa accaactttc	540
cagtgttgga gagcactgna tagtttatgn attgtgtaaa	580

<210> 44

<211> 348

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)..(347)

<223> where n may be either a or g or c or t/u, unknown or other

<400> 44

tgtttcttaa nacagaaaaa aatttactga tnggacattg ttctaagtgt attattgtat	60
taaatggatc atttaattta atcttcataa ctgacatagg agttgagtaa cttgtgtggt	120
caaatagcta gtaagtgatg agtaggctgg gcgcagtggc tcaagcctgt aatcccagca	180
ctctgggagg ctgaggcagg cagatcactt gaggtcagga gtttgagacc agcctggnc	240

acatggnaaa acctcgtctc tactaaaaat acaaaaatta gctgggcgtg gtgggngcgc 300
acttgtagnc ccagntactc ggaaggctng aggcaggagg aatcgctt 348

<210> 45
<211> 430
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)..(430)
<223> where n may be either a or g or c or t/u, unknown or other

<400> 45
gctcatcatg cttcacgggg gaggctgtgc gggaagaatg ctcccacaca gnataaagaa 60
tgctcccgca caggatagag aatgcccccg cacagcatag agaagcccc gcacagcata 120
gagaatgcc ccncacagca tagagaagcc cccgcacagn atagagaatg ctcttcacct 180
ctgggttttt aaccagccaa actaaaatca cagagggcaa cacatcattt aagatagaaa 240
tttctgtatc ttttaatttc tttcaaagta gttttactta tttncagatt ctatttcttt 300
actagaatta agggataaaa taacaatgtg tgcataatga accctatgaa acaaacaaaa 360
gctaggtttt ntncataggt ctncctccnn attgaatgaa cgtctntcct caaatttanc 420
ccccagggga 430

<210> 46
<211> 402
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)..(400)
<223> where n may be either a or g or c or t/u, unknown or other

<400> 46
caaaccctat gngaaatgga aaggaaacta ttctaaagca taaaaggtag aaatatatat 60

accacccatc aagaaagatt atttttgntg aactcaagtc accagagtgg ctaaagccca	120
gtagaatgga aatgattata tggaaggtga ggccaacggg accagaacat actgtgatag	180
acagnaagga gctgtctatc ttctattctc ccacagaagg aggtgactaa gtcantgccc	240
caagcaatgt tatatctgca attgatgtnc agcagtacaa gtctgaacaa cttggattgg	300
ntgattaant gtcnacant aaacatacaa gtentaatag ctatctctat atagtctttg	360
ggtntttaca aggcactgnc acatnatctc acctattcct cc	402

<210> 47
 <211> 500
 <212> DNA
 <213> Homo sapiens

 <220>
 <221> misc_feature
 <222> (1)..(500)
 <223> where n may be either a or g or c or t/u, unknown or other

<400> 47	
agnatccaga attgagtgna gngttctctg gnccacagtc tccgtatctn ctgtgaaatg	60
gggtatagat tctacaataa aacaaacaca nnggccctag gtcagtgtta atggagatca	120
ccanccacat taccacctcc aacacagaat tttctttttc ttaatncaat ncgtntctta	180
taagtcactt tnccccaact caccaatcta gntaagaatt tttaccctga gaaaaacagc	240
tacactctaa aattgctnca aagaaaatgt ctaacatntg gaaagaagga cttaacatgt	300
gangnagaca ctggctccat ctagnnggtg cttntntttg aaataattat aatncncat	360
caaattttng ggggntacag cttattagga acttggtata gaaccagatt ctgccacaga	420
anccacgtgg gttgacaagt ggttgncaga agaaaggtaa tatggcttat nattagggnc	480
tcncatctgc agagtaattg	500

<210> 48
 <211> 460
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)..(460)
 <223> where n may be either a or g or c or t/u, unknown or other

<400> 48
 aaaatgcttg anncaaattgt catctagttc catctctacg actctcatgg ggtccaaaga 60
 agagttttan ttgagtttta gaatgtgaag ttgtgaagtg tctgaaaaac tacatgggtgn 120
 tctgaaagnc aaacttttag ccttgaggga gagcatctaa gacagnaggt gaaggggnagg 180
 ggtagaact agagggattg aagaatatta tccatatagg ttagggtag gtnnggcaac 240
 gttttataga acaaacattg gcaagctaca gccacaggcc agatctgtct nctaccttcc 300
 caciaagggtg taataacaaa gttattcaca aatgtgtgaa taaactnnca ttggaaagtg 360
 cccacgctcc tnggtttata cattgtctgt ggctgcttcc acactacagt agcacagggtg 420
 agtgtntgca ctggagacca tatgccccat agagctttaa 460

<210> 49
 <211> 372
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)..(370)
 <223> where n may be either a or g or c or t/u, unknown or other

<400> 49
 atcaagcaac agtgtgttat gcctatactc catgtttata tgtgtgtatt aaaaaatgta 60
 tttngtatat atgtgtatgt ataagtgtgt gtgtgtgtat gatgattctn ctcccgnntt 120
 gaagggtgaaa gaaagcacac ctttatTTaa gcataaactt tgggtttcan gatactgtct 180
 ggaaaaatga tttatctccc actttgaaat tccaaaatac gtacatatat tttttttttc 240
 ttttcttttt tagtttnagg gtcttgctgt gttgcccagg ctggagtgca gtagtgtgat 300
 catagntcac acagnctcta actcccagg tcaagntatc ttctgcccc agnctcctga 360
 gtagntggga ct 372

<210> 50
 <211> 500
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)..(500)
 <223> where n may be either a or g or c or t/u, unknown or other

<400> 50
 caaaaaaatca aaggggaagnt ggaacccctg cccacctctc cattccccat tctgctggtg 60
 gtgnctgctc ttctcacag tacctcctga aaagttcaga attcagttaa tacagaatta 120
 ttgggttgat tttcaacgtg tagtttaaga tgaagagttc cgnttggttt aaaccacttc 180
 acctaacctc ttggtaacgg tagtcctgag agttcgcagt gtcantgaaa atcgtcctgt 240
 gaccacgcgt caagctgctg atgggggaca gaaacttccg ggnctatcat atctccttga 300
 nctcggccct caaatctggt agtttctgca ccgagggaca cagtccactg cgatgaagta 360
 tgttcaaaat cgntttcttt agggaactcc ttccaaagtc caatagtgn aggtgggtcaa 420
 ggaaggattt ggaaggaagn tgnaaaagtc agncgggaat cttgatttgg ntagntgtgg 480
 ananaggaaa tcacttggcc 500

<210> 51
 <211> 105
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)..(105)
 <223> where n may be either a or g or c or t/u, unknown or other

<400> 51
 ggaaagaggt ctcctaacac ccagacagtg taaaaatcca gtttttcttc cttttggng 60
 gagacagagt ctcgcactgt agctcaggct ggagtgcagt ggcac 105

<210> 52
 <211> 387
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)..(387)
 <223> where n may be either a or g or c or t/u, unknown or other

<400> 52
 agtcccagct actcaggagg ctggggcagg aagatagctt gagcctggga gttagaggct 60
 gtgtgagcta tgatcacact actgcactcc agcctgggca acacagcaag accctaaaac 120
 taaaaaagaa aagaaaaaaa aaatatatgt acgtattttg gaatttcaaa gtgggagata 180
 aatcattttt ccagacagta tctngaaacc caaagtttat gcttaaataa aggtgtgctt 240
 tctttcacct tcaaagcggg agaagaatca tcatacacac acacacactt atacatacac 300
 atatatacaa aatacatttt ttaatacaca catataaaca tggagtatag gcataacaca 360
 ctgttgcttg ataaaatata gggatcc 387

<210> 53
 <211> 380
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)..(377)
 <223> where n may be either a or g or c or t/u, unknown or other

<400> 53
 tatatttnat caagcaacag tgtgttatgc ctatactcca tgtttatatg tgtgtattaa 60
 aaaatgtant ttgtatatat gtgtatgtat aagtgtgtgt gtgtgtatga tgattctcct 120
 cccgnnttga aggtgaaaga aagcacacct ttatttaagc ataaactttg ggtttcnaga 180
 tactgtctgg aaaaatgatt tatctccac tttgaaattc caaaatacgt acatatattt 240
 tttttttcctt ttctttttta gtttnagggt cttgctgtgt tgcccaggct ggagtgcagt 300

agtgtgatca tagntcacac aggctctaac tcccaggntc aagctatctt cctgccccag 360
 nctcctgagt aggtgggact 380

<210> 54
 <211> 521
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)..(521)
 <223> where n may be either a or g or c or t/u, unknown or other

<400> 54
 ctgcagtaag ccacgttcat gccactgtac tctagcgtgg atgacagaga gagatcctgt 60
 ctttggaaga aaaaaacaaa aagaaaaaaa aaagagtatg gccatggcct tataatatag 120
 aaggggtcac atattaatct ctgaaaatgg atctcttgtg ggctttcata caaggcaaca 180
 gccacagagt acgtacctga aagctgcctg ggnttaatgg ctggnagtat gttctaactn 240
 gttcaggnac ccatgtcacn actgggtggtt acagaatgtg aatctcacac tgtccnaaat 300
 cggttttatt tttaaaanga ataattctan tacattacct tataaaaagt aggtaaccta 360
 attttggnntt ttaaaagtga attgagggca gatgcaagtg gntcacacct attaatccca 420
 aataccttgg agaggggcaag gtaggaggat tggttggagc ccaggagtcc aaagaccagg 480
 ctagggaata ttgnaagaan gtcctctcta caanaanaa t 521

<210> 55
 <211> 516
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)..(516)
 <223> where n may be either a or g or c or t/u, unknown or other

<400> 55

ctgcangaag cttttnttnc ttttnggngg agacagagtc ttgctgtgtc ancccaggct	60
ggggtgcagt ggnacagtca tagctcactg caaccttgaa ctccctggnt catgcgatcc	120
tcccacttca gcctctcaag tagctagaac tacagggtgtg caccaccatg cctgactaac	180
ttgtttattn gngggagaga gaacgntctt gctatatgtc ctaggctggg cnttgaactc	240
ttgggntnca agcaatcctc ctaccttggc ctctncaagg tanttgggat tnatagggtgt	300
gagccacntg catctggcct caattcactt ttaaaatnca aaattagggtt acctactttt	360
tataaggtaa tgtattagaa ttattcttnn naaaaataaa accgatttgg gaaagngtga	420
gantcacatt ctgtaaccac cagtgggtgaa atgggtcccc gaacaaggta gaacatactc	480
ccagccatta accccagggg gngttcaagt ccgtnc	516

<210> 56
 <211> 505
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)..(505)
 <223> where n may be either a or g or c or t/u, unknown or other

<400> 56	
ggatcctgtt tcttaaaaca gaaaaaaatt tactgatagn acattgttct aagtgtatta	60
ttgtattaaa tggatcattt aatttaatat tcataactga cataggagtt gagtaacttg	120
tgtgggtcaaa tagctagtaa gtgatgagta ggctgggcgc agtggntcaa gcctgtaatc	180
ccagcactct gggaggctga ggcaggcaga tcacttgagg tcaggagttt gagaccagcc	240
tggccaacat ggnaaaacct cgtctctact aaaaatacaa aaattagctg ggcgtgggtg	300
gtgcgcactt gtagtcccag ctactcggaa gggttgaggc aggaggaatc gcttgggtccc	360
cgggagggag aggttgntng tgnagctgag atcacgccac tngcactcca ggctgggnaa	420
caaaagggag acctttntct aaaaaaaaat naaaataaaa agtgatgagt aggattggga	480
cccnagacat cttttctcca agacc	505

<210> 57
 <211> 500
 <212> DNA
 <213> Homo sapiens

 <220>
 <221> misc_feature
 <222> (1)..(500)
 <223> where n may be either a or g or c or t/u, unknown or other

<400> 57
 ctgcagnctc aaacccttgt cctgggatca aacaatcctc ccacctcagc cttcaaagta 60
 gatagaacta caggcatgca ctaccatgcc taatttttta aaaaaaaatt ttttttcaga 120
 gatgagatct cactgtgttt cccaggnttg tccggaactc ctggactcaa gcgatcctcc 180
 caccttgggc tgccaaagtg ttgggattac aggcattgagc caccatgcct ggccatacac 240
 tttttttttt tttttaanca agacggagtc tngttctgtc gcccagactg gagtgcaggg 300
 gcgtnnatct tggctcactt gaaagcttcg cctcccaggg ttcattgccgt tctcctgnct 360
 cagcctccca agtnggtggg actacaggna tctgcaccac gnccggttat ttnttggggt 420
 tgnngnaggg acgggggttt accatgttag gcaggatgac ttcggacttc cngacccaag 480
 atcacctgc tcggctccca 500

<210> 58
 <211> 440
 <212> DNA
 <213> Homo sapiens

 <220>
 <221> misc_feature
 <222> (1)..(440)
 <223> where n may be either a or g or c or t/u, unknown or other

<400> 58
 gaattccaga cgagcctggg caacacagtg agactctatc actacaaaaa aatttttaaaa 60
 ttagctaaag ttgatgnnac atgcctgcag tcccagctac tcaggaggct ggggcaggaa 120
 gatagcttga gcctgggagt tagaggctgt gtgagctatg atcacactac tgcaactccag 180

cctgggcaac acagcaagac cctaaaacta aaaaagaaaa gaaaaaaaaa atatatgtac	240
gtntttgggg aatttcaaag tgggagataa atcatttttc cagacagtnt cttgaaaccc	300
aaagtttatg cttaaataaa ggtgtgcttt ctttcacctt caaangcggg agaaggatca	360
tcatncacac acacacactn atcatncaca tttttacaaa tncaattnnn naatacaaca	420
cattttaaca tgggggttttg	440

<210> 59
 <211> 513
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)..(513)
 <223> where n may be either a or g or c or t/u, unknown or other

<400> 59	
ggatcctggt tcttaaaaca gaaaaaaatt tactgatagn acattgttct aagtgtatta	60
ttgtattaaa tggatcattt aatttaattct tcataactga cataggagtt gagtaacttg	120
tgtgggtcaaa tagctagtaa gtgatgagta ggctgggcgc agtggctcaa gcctgtaatc	180
ccagcactct gggaggctga ggcaggcaga tcacttgagg tcaggagttt gagaccagcc	240
tggccaacat ggnaaaacct cgtctctact aaaaatacaa aaattagctg ggcgtgggtg	300
ntgcgcactt gtagtcccag ctactcggaa ggctngaggc aggaggaatc gcttgatccc	360
ngggagggag aggttggtng tgangctgag atcacgncac ttgnactcca gnetgggnaa	420
caaangngag atcttntctc aaaaaaaaaat aaaantaaaa ngtgatgagt aggatttgga	480
ccccagacat cctntctcca ggacctggna ttc	513

<210> 60
 <211> 390
 <212> DNA
 <213> Homo sapiens

<220>

<221> misc_feature
 <222> (1)..(390)
 <223> where n may be either a or g or c or t/u, unknown or other

<400> 60
 gaattcctgg nctcaagtga tcctctcacc tcagcctccc aaattgctgg gattagagtg 60
 tgagccactg tgcctagcct gcatatatct atttttaatg actgctaaat ctcatgtgat 120
 gaaaatttat gtcctagcta taaaatttgn tagcacatgt ttaatttttt ctaatttcag 180
 atgtttttaa ctaatatattt ccaaagtata gtatggcatt ttaggtatga tatgatcttt 240
 nntcctcttc gtactcattt ttatagttat ggctgtgca actggtttcc catttatatg 300
 aatgatacag agcttcctat taagaaaaag ttcagcttgg ggaaaaaaaa agtgaattgt 360
 caacttngag ggaaaaaagt gaattattgg 390

<210> 61
 <211> 366
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)..(366)
 <223> where n may be either a or g or c or t/u, unknown or other

<400> 61
 tcaagtacct ccctgaatgg actgcgtggc tcattcttggc tgtgatttca gtatatggta 60
 aaaccaaga ctgataattt gtttgtcaca ggaatgcccc actggagtgt tttctttcct 120
 catctcttta tcttgattta gagaaaatgg taacgtgtac atcccataac tcttcagtaa 180
 atcattaatt agctatagta actttttcat ttgaagattt cggctgggca tggtagctca 240
 tgcttgtaat cttagcactt tgggaggctg aggcgggcag atcacctaag cccagagtgc 300
 aagaccagcc tgggcaacat ggcaaacct cgtatctaca gaaaatacaa aaattngncg 360
 ggnatg 366

<210> 62

<211> 498
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)..(498)
<223> where n may be either a or g or c or t/u, unknown or other

<400> 62
aacaccaggg ncatgagggc actaatcata atgagatatg cctgctggag tcgaagtgga 60
cctttccagt gaatggaaat cattcccacc acaccaaatt tccagatcag gagtgnaaca 120
gtaatgtagt ccacagcaac gttatagggt ttaaactctt cctgaaaaa aaattacaca 180
gattttaaaa gatgtacaat aatttccacc aaaacattat ttagaataat gtgatggctc 240
ccaaacatta gatattaatn tcccaccttt ataattttac cataacctat atcaactgtg 300
ctattattta tttaatnctt ccctntaaat taatttactc tttttttgtt tttgtttttg 360
ngtttggagc cagtgtctca ttttggttgc ccaggcttgg agtaaagtgg gtgcaatcac 420
ggctcaactg nagtctttnc ctcnnggaga tcaggtnngt cttccccagg tccaanctcc 480
taagttgggt ngganaac 498

<210> 63
<211> 469
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)..(469)
<223> where n may be either a or g or c or t/u, unknown or other

<400> 63
taaacaacag ggncatgagg gcactaatca taatgagata tgctgctgg agtcgaagtg 60
gacctttcca gtgaatggaa atcattccca ccacaccaa attccagatc aggagtgaaa 120
cagtaatgta gtccacagca acgttatagg ttttaaacac ttccctgaaa aaaaattaca 180
cagattttta aagatgtaca ataatttcca ccaaaacatt atttagaata atgtgatggc 240

tcccaaacat tagatattaa tntcccacct ttataatttt accataacct atatcaactg	300
tgctattatt tattttaatnc ttccctctaa attaatttac tcttttttttg tttttgtttt	360
tgtgttttggga gccagtgtct catttttggtt gcccaggctt ggagtaaagt gggtgcaatc	420
acggctcaac tgnagtcttt acctcccga gatcangttg gtctttccc	469

<210> 64
 <211> 370
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)..(370)
 <223> where n may be either a or g or c or t/u, unknown or other

<400> 64	
gtttatcaag tacctccctg aatggactgn gtggctcatc ttggctgtga tttcagtata	60
tggtaaaacc caagactgat aatttgtttg tcacaggaat gcccactgg agtgttttct	120
ttcctcatct ctttatcttg atttagagaa aatggtaacg tgtacatccc ataactcttc	180
agtaaatacat taattagcta tagtaacttt ttcatttgaa gatttcggct gggcatggta	240
gctcatgcct gtaatcttag cactttggga ggctgaggcg ggcagatcac ctaagcccag	300
agttcaagac cagcctgggc aacatggcaa aacctcgat ctacagaaaa tacaaaaatt	360
agccnggnat	370

<210> 65
 <211> 316
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)..(316)
 <223> where n may be either a or g or c or t/u, unknown or other

<400> 65

gtcatggtgt tggcggggag tgtcttttag catgctaagt tattataatt agcgtatagt	60
gagcagtgag gataaccaga ggtcactctc ctcaccatct tggttttggt gggttttggc	120
cagcttcttt attgcaacca gttttatcag caagatcttt atgagctgta tcttgctgctg	180
acttcctatc tcatcccgna actaagagta cctaacctcc tgnaaattga agnccagnag	240
gtcttggcct tatttnaccc agcccctatt caaaatagag tngttcttgg nccaaacgcc	300
cctgacacaa ggattt	316

<210> 66

<211> 448

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)..(448)

<223> where n may be either a or g or c or t/u, unknown or other

<400> 66

ctgcagnccg ggggatcctg gtaaaagtca caaggtcagc ctactaaagc agggaaaact	60
aaaggcaagt aaacacgtgc agacaaaaaa agggataaag aaaaggaatt aagaaactag	120
catttttaan gtggggggagg tgaatgcttc ccagaatggg tttatatcac ttgcttgngg	180
gccttctgag tgttggnaac aacctgtcat catcacacat acctgtcatc tttaatggtc	240
tccatacatt actaatagat tatacagatg gccatcactt aacacttcca ctcactcaat	300
ttgtncaaca tgcaagggtta ccctcttttt tngcttacng ccacaaagca ttgganaagg	360
tttgtgattt ttactagccn ccacttcac aaatttaagc attttctttt tcctnttaac	420
anccaggaca ggnttnaacn aaggaaat	448

<210> 67

<211> 450

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)..(450)
 <223> where n may be either a or g or c or t/u, unknown or other

<400> 67
 ctgcagctcc aagcaccttt ttcaaattca gctttctgtg atttcagacc acatatgcaa 60
 ggaactatct taccttaatt aataagactt taaaatcctt gtgtcagagg cgtttggacc 120
 agagcaactc tatcttgaat aggggctggg taaaataagg ccaagaccta ctgggctgca 180
 tttgcaggag gttaggtact cttagttacg ggatgagata ggaagtcagc acaagataca 240
 gctcataaag gatcttgctg ataaaactgg ttgcaataaa gaagctggnc aaaaccacc 300
 aaaaccaaga tgggtgaggag agtgacctct gggtatcctc actgntcact atacgntaat 360
 tattatacat tagcatgcta aaagacactc cccgcaacaa ccatganagg ttacaagtt 420
 nccatggnaa cgnncccgga ngntancttg 450

<210> 68
 <211> 388
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)..(388)
 <223> where n may be either a or g or c or t/u, unknown or other

<400> 68
 ctgnagcctc caccacccag gttcaggtga ttctcctgcc gtagnctcat gagtagntgg 60
 gattacaggc atgtgccacc atgcccgaact aatttttata tttttagtag agacgggggtt 120
 tcaccatggt gggcaggctg gtctcaaact cctgacctca agtgatctgc ccaccttggc 180
 ctcccaaagt gctgggattt caggcgcttg gcctgttact tgattatatg ctaaacaagg 240
 ggtggattat tcatgagttt tctgggaaag aggtgggcaa ttcccggaac tgagggatcc 300
 ctccccttnn nagaccatac aaggtaactt ccggacgttg gcatggnatc ttgttaaact 360
 tgtcatggng ttggggggga gtgtcttt 388

<210> 69
 <211> 500
 <212> DNA
 <213> Homo sapiens

 <220>
 <221> misc_feature
 <222> (1)..(500)
 <223> where n may be either a or g or c or t/u, unknown or other

<400> 69
 ctgcagaagt atgtttcctg tatggtatta ctggataggg ctgaagttat gctgaattga 60
 acacataaat tcttttccac ctcagggnc a ttgggcgccc attgctcttc tgcctagaat 120
 attctttcct tttctaactt tgggtggatta aattcctgtc atccccctcc tcttggtggt 180
 atatataaag tnttggtgcc gcaaaagaag tagcactcga atataaaatt ttccttttaa 240
 ttctcagcaa ggnaagttac ttctatatag aagggtgcac cntacagat ggaacaatgg 300
 caagcgcaca tttgggacaa gggaggggaa agggttctta tccctgacac acgtggtccc 360
 ngctgntgtg tncncccc actgantagg gttagactgg acaggcttaa actaattcca 420
 attggntaat ttaaagagaa tnatggggtg aatgctttgg gaggagtcaa ggaagagnag 480
 gtagnaggta acttgaatga 500

<210> 70
 <211> 435
 <212> DNA
 <213> Homo sapiens

 <220>
 <221> misc_feature
 <222> (1)..(435)
 <223> where n may be either a or g or c or t/u, unknown or other

<400> 70
 ctgcagagta attgcaactg gagttgtctt aagataatgt cacatatcca tcttcccctt 60
 gtttctcatt cacagaaaaa catttttatt ccaggtgcc aatattcccag ccaaaaagac 120
 tttacttctg actcccttat atttaggatg gctatgagaa caagtaaggg caatgacttc 180

tagggagatg tgttgtgtat ggaacttcta aggagagaat tctgctgaca tgtcctatgt	240
tcttttctcc cctactcctt cctactgtca gaaatgaagg ctagggctcc agcctggacc	300
ctgaagtaag ctagaggtta gaagctaaag aagaaagaag gagattgagt ccttggatga	360
acgtgaagcc accctactaa tctggactgn ctacctctgn actactctat gagagagaaa	420
gtatgtgcat tattt	435

<210> 71
 <211> 439
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)..(439)
 <223> where n may be either a or g or c or t/u, unknown or other

<400> 71	
catgctcttt gtccctgtga ctctctgcat ggtggtggtc gtggntacca ttaagtcagt	60
cagcttttat acccggaagg atgggcagct gtacgtatga gtttggtttt attattctca	120
aagccagtgt ggcttttctt tacagcatgt catcatcacc ttgaaggcct ctgcattgaa	180
ggggcatgac ttagctggag agcccatcct ctgtgatggt caggagcagt tgagagagcg	240
aggggttatt acttcatgtt ttaagtggag aaaaggaaca ctgcagaagt atgtttcctg	300
tatggtatta ctggataggg ctgaagttat gctgaattga acacataaat tcttttccac	360
ctcaggggca ttgggcgccc attgntcttc tgcctagaat attctttcct tttnctnactt	420
gggnggatta aattcctgt	439

<210> 72
 <211> 318
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)..(318)
 <223> where n may be either a or g or c or t/u, unknown or other

```

<400> 72
tccatctcta cgactctcat ggggtccaaa gaagagtttt aattgagttt tagaatgtgn      60
agttgtgaag tgtctgaaaa actacatggt gntctgaaag ncaaactttt agccttgggg      120
gagagcatct aagacagnag gtgaagggga ggggttagan ctagagggat tgaagaatat      180
tatccatata ggtaggggtt aggtgtggca acgttttata gaacaaacat tggnaagcta      240
cagacacagg ccagntctgt ctntacctn tccacaaagg tgnataaca aagttannca      300
caaatgtgtg aataaact                                                    318

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<210> 73
<211> 450
<212> DNA
<213> Homo sapiens

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<220>
<221> misc_feature
<222> (1)..(450)
<223> where n may be either a or g or c or t/u, unknown or other

```

```

<400> 73
gttgcaaagt catggattcc tttaggtagc tacattatca acctttttga gaataaaatg      60
aattgagagt gttacagtct aattctatat cacatgtaac ttttatttgg atatatcagt      120
aatagtgctt tttcnttttt tttttttntt ttttttnntt ttnggggana gagtctcgct      180
ctgtcgccag gttggagtgc aatgggtgca tcttggctca ctgaaagctc caccncccg      240
gttcaagtga ttctcctgcc tcagccnccc aagtagntgg gactacaggg gtgcgccacc      300
acgcctggga taattttggg ntttttagta gagatggcgt ttcaccanct tggngcaggc      360
tgggtcttga actcctgana tcatgatctg cctgccttag cctccccaaa gtgctgggat      420
tncaggggtg agccactggt cctgggcctc                                     450

```

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<210> 74
<211> 489
<212> DNA
<213> Homo sapiens

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<220>
 <221> misc_feature
 <222> (1)..(489)
 <223> where n may be either a or g or c or t/u, unknown or other

<400> 74
 ctgcagntga gccgtgattg canccacttt actccnagcc tgggcaanca aaatgagaca 60
 ctggctncaa acacaaaaac aaaaacaaaa aaagagtaaa ttaatttaaa ggggaagtatt 120
 aaataaataa tagcacagtt gatataggtt atggtaaaat tataaagggtg ggatattaat 180
 atctaattgtt tgggagccat cacattattc taaataatgt tttgggtggaa attattgtac 240
 atctttttaa atctgtgtaa ttttttttca ggggaagtgtt taaaacctat aacgttgctg 300
 tggactacat tactgttgca ctctgatct ggaatttttg tgtggtggga atgatttcca 360
 ttcactggaa aggtccactt cgactccagc aggcatactt cattatgatt agtgcctca 420
 tggccctggt gtttatcaag taccnccctg aatggactgg gtggctcatc ttggctgtga 480
 tttcagtat 489

<210> 75
 <211> 449
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)..(449)
 <223> where n may be either a or g or c or t/u, unknown or other

<400> 75
 ctgcagnctt gacctcctgg gatcaatcga tcctcccacc tcagcctcct aagtagctgg 60
 aactacaggt gtgcaccacc atgcccggct aatttttgta ttttctgtag atacgaggtt 120
 ttgccatgtt gccagggctg gtcttgaact ctgggcttag gtgatctgcc cgcctcagcc 180
 tcccaaagtg ctaagattac aggcattgagc taccatgccc agccgaaatc ttcaaatgaa 240
 aaagttacta tagctaatta atgatttact gaagagttat gggatgtaca cgttaccatt 300

ttctctaaat caagataaag agatgaggaa agaaaacact ccagtggggc attcctgtga	360
caaacaaatt atcagtcttg ggttttacna tataactgaaa tcacagccaa gatgagccac	420
gcagtccatt caggaggagta cttgataaa	449

<210> 76
 <211> 490
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)..(490)
 <223> where n may be either a or g or c or t/u, unknown or other

<400> 76	
ttcttgccgt tcccgaccgc agcctggtgc cccttcecca ttatgatcct tntcgttcc	60
ggcggcatcg ggatgccccg cgttgcaggc catnctgtcc cagncaggta gatgacgacc	120
atcagggaca gcttcaagga tcgctcgcgg ctcttaccag cctaacttcg atcattggac	180
cgctgatcgt cacggcgatt tatccgcct cggcgagcac atggaacggg ttggcatgga	240
ttgtaggcgc cgccctatac cttgtctgcc tccccgcgt tgcgtcgcgg tgcattggagc	300
cggncacact cgacctgaat ggaanccggc ggcacctcgc taacggattc accactccaa	360
gaattggagc caatcaattc ttgcggagaa ctgtgaatgc ncaaaccaac ccttggcaga	420
acatatccat cgcgtccgcc atctccanca gccgcacgcg gcgcatctcg ggcagcggtg	480
ggtcctgcag	490

<210> 77
 <211> 470
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)..(470)
 <223> where n may be either a or g or c or t/u, unknown or other

<400> 77
ctgcagtggt taaaaaataa aataaactaa aagtttattt atgaggagta cactgctttc 60
ttgtaaacac atgtacaagc catataatag agttcatttc nnaccctagt tacggaaaca 120
ctagaaagtc tncacccggc caagataaca catctttagg taaaaatagc aagaaatatt 180
ttatggggtg tttacttaaa tcatagtttt cagggtgggc acagtggntc atgcctgtaa 240
tcccagcact ttatgcggct gaggcaggca gatcagttga ggtcagaagt ttgagaccag 300
cctgggcaat gtggcaaaac ctcatctcca ctaaaaatac aaaaattagc caggcatggc 360
ggcgcacaca tgtaattcc cagctacttg ggaggnttga gacaggaggg tcgcttggn 420
ctaggaggga agaagttgna gggancttaa tgtcactgca ctctagnttg 470

<210> 78
<211> 445
<212> DNA
<213> Homo sapiens
<220>
<221> misc_feature
<222> (1)..(445)
<223> where n may be either a or g or c or t/u, unknown or other

<400> 78
cactcaattc tgaatgctgc catcatgata agtgtcattg ttgtcatgac tannctcctg 60
gtggttctgt ataaatacag gtgctataag gtgagcatga gacacagatc tttgntttcc 120
accctgttct tcttatgggt gggatttctt gtcacagtaa cttaactgat ctaggaaaga 180
aaaaatgttt tgtcttctag agataagtta attttttagtt ttcttcctcc tcaactgtgga 240
acattcaaaa aatacaaaaa ggaagccagg tgcattgtga atgccaggct cagaggctga 300
ggcaggagga tcgcttgggc ccaggagtgc acaagcagct tgggcaacgt agcaagaccc 360
tgctctatt aaagaaaaca aaaaacaaat attggaagta ttttatatgc atggaatcta 420
tatgtcatga aaaaattagt gtaaa 445

<210> 79
<211> 496

<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)..(496)
<223> where n may be either a or g or c or t/u, unknown or other

<400> 79
cctgtatttta tactgaacca ccaggaggat agtcatgact acaatgacnc tgatcatgat 60
ggcagcattc agaattgagt gcagggctct ctggcccaca gtctcggtat cttctgtgaa 120
tgggggtatag attctacaat aaaacaaaca caaaagccct aggtcagtgt taatggagat 180
caccaaccac attaccacct ccaacacaga attttctttt tcttaattca attcgnatct 240
tataagtcac ttttcccca ctcaccaatn ctagctaaga atttttaacc tgagaaaaac 300
agctacactc taaaattgct tcaaagaaaa tgtctaacat atggaaagaa ggacttaaca 360
tgtgaagcag acactggctc catctagtgg gtgctttata ttgaaataat tataatacct 420
catcaaattt tttngggtag agnttattag gaacttggtg tggaaccaga ttctgccaca 480
gaaaccacgn gggctg 496

<210> 80
<211> 496
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)..(496)
<223> where n may be either a or g or c or t/u, unknown or other

<400> 80
cattagataa tggntcaggg tggccaaggc tccgtctgtc gttgtgctcc tgccgttctc 60
tattgtcatt ctataagcac aagaaaaaca ttttcagtaa atcagattct cagcagaatc 120
aaggtaacgg ttagacctgg gattaacaac agaccctgca ctatgagttc taaaaacctg 180
aagcaagaaa aaacaatgta caggaagtat gcagtttaaa agtctagatt atctatcatt 240

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<400> 82
gaattccttt tttttttttt tttttttttt ttntccttaa tgttttttatt gtnccttaga      60
taactggata gnacaaagtt ngnccttngtt ttttacttaa aaaacgtact ttccgcatac      120
tgtngcccgt atgactttcc tgtcccatcg gaaaccagag tttccccagg tgagcccttc      180
ctatctgngg ntacatgatt tagctaattt aacaagaaga gagtaattcc ttnggattat      240
tatcaacatg aaacttggac tatgtctcta taagggtgaa cactgatttt ttttttcttt      300
ttagaaacaa aaaccatcca cttattaatc caaactacgg gattggattt acaacaatca      360
tcgcatnaac tgaacatacg aagttaccac tcaagggaat nacagaagaa cgttgnacaa      420
tntntcttac ggggtacgng aattcaaaca atgtggggan aggaacttca ntctacaaan      480
tctgaccatc gnttcagtat                                          500

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<210> 83
<211> 450
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)..(450)
<223> where n may be either a or g or c or t/u, unknown or other

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<400> 83
gaattccttt actcttcttt aattctaccg tctttgggca tacatctcat ttgntgtgga      60
agaaggtctg acagnagggc tgacagcacc gattcataac acattctttt catcatacaa      120
agagtaagac cctagaataa tgggaccatc tgctaccacg acagagctgc cttactggct      180
gtagaaaaag actgcttgtg tgggagagaa gaatgaggac agaggaggca tctggggcaa      240
gtgagcgtac aagtatntct acaaattcag aatttggtgg aaaatccaaa tttgncttca      300
acatgataga gaattgatga gaaaatagct gtntctgtttc caaaatttac tgaatttggg      360
aacctgaggt taaaactttt aggatnaagc aactcagggt caagacttng nctngggaag      420
gaatggaaac acagacggga atgagtntca                                          450

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<210> 84
 <211> 450
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)..(450)
 <223> where n may be either a or g or c or t/u, unknown or other

<400> 84
 caactgtatt tatacagnaa ccaccaggag gatagtcatg acaacaatga caaactagga 60
 atagccccct ttcacttctg agtcccagag gttacccaag gcacccctct gacatccggc 120
 ctgcttcttc tcacatgana aaaactagcc cccagtntga tccgcaggtn gaggaatncc 180
 ccgggtcgag gttcggatcc tggatgacag accctctcgc ccctgaaggn gataaccggg 240
 tgtggtacat ggacggntat cacaacaacc gcttcgnacg tgagtacaag tccatgggtg 300
 acttcatgaa cacggacaat ttcacctccc accgtctccc ccacccctgg tcgggcacgg 360
 ggnaggtggt ctncacgggt tctttctnct tcaacaagtt ccagagccac atcatcatca 420
 ggtttgacc tgaaganaga gaacatcctc 450

<210> 85
 <211> 500
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)..(500)
 <223> where n may be either a or g or c or t/u, unknown or other

<400> 85
 ggatccctcc cctttttaga ccatacaagg taacttccgg acgttgccat ggcattctgta 60
 aactgtcatg gtgttgccgg ggagtgtctt ttagcatgct aatgtattat aattagcgta 120
 tagtgagcag tgaggataac cagaggtcac tctcctcacc atcttggttt tgggtgggttt 180
 tggccagctt ctttattgca accagtttta tcagcaagat ctttatgagc tgtatcttgt 240

gctgacttcc tatctcatcc cgtaactaag agtacctaac ctcttgcaaa tngcagccca	300
gtaggtcttg gncttatattt acccagcccc tattcaagat agagttgctc ntgggtccaaa	360
cgctcttgac acaaggattt taaagtctta ttaattaagg taagataggt ccttggatat	420
gtggtctgaa atcacagaaa gctgaatttg gaaaaagggtg cttggagctg cagccagtaa	480
acaagttttc atgcaggtgt	500

<210> 86
 <211> 500
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)..(500)
 <223> where n may be either a or g or c or t/u, unknown or other

<400> 86	
ctgcagtgag ccaaaatcgt gccactgcac ttcactccag cctgggtgac agggcaaggc	60
cctgcttcaa caaacaaca aacaacaaa aaccactta gattgtgcta ttatatggaa	120
atgtttattt ttcagttaca actttttttg ttttctgctt ttatttggtg agacaatggc	180
ctaaaaaggc attgaaatnc caaaataaca taaattatca ctaaatcttg ataactaatc	240
ataatatata tattttacac taattttttc atgacatata gattccatgc atataaaaata	300
ctccaatat ttgttttttg ttttctttaa tagaggcagg gtcttgctac gttgccaag	360
ctgcttgtga actcctgggc ccaagcgatc ctctgcctc agcctctgag cctggcatta	420
cacatgcacc tggcttcctt tttgtntttt ttgaatgttc cacagtgagg aggaagaaaa	480
ctnaaaatta acttatctct	500

<210> 87
 <211> 450
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature

<222> (1)..(450)
 <223> where n may be either a or g or c or t/u, unknown or other

<400> 87
 ctgcagatga gaggcactaa ttataagcca tattaccttt cttctgacaa ccacttgta 60
 gccacgtgg tttctgtggc agaactctggg tctataacaa gttcctaata agctgtagcc 120
 aaaaaaattt gatgaggtat tataattatt tcaatataaa gcaccacta gatggagcca 180
 gtgtctgctt cacatgttaa gtccttcttt ccatatgtta gacattttct ttgaagcaat 240
 tttagagtgt agctgttttt ctcagggttaa aaattcttag ctaggattgg tgagttgggg 300
 aaaagtgact tataagatac gaattgaatt aagaaaaaga aaattctgtg ttggaggtgg 360
 taatgtgggt ggtgatcttc attaacactg anctagggnt ttgggggttg gtttattgta 420
 gaatctatac cccattcana gaagataccg 450

<210> 88
 <211> 502
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)..(502)
 <223> where n may be either a or g or c or t/u, unknown or other

<400> 88
 ctgcagccag taaacaagtt ttcatgcagg tgtcagtatt taaggtagat ctcaaaggat 60
 aagtacaatt gtgtatgttg ggatgaacag agagaatgga gcaagccaag acccaggtaa 120
 aagagaggac ctgaatgcct tcagtgaaca atgatagata atctagactt ttaaactgca 180
 tacttctgt acattgtttt ttcttgcttc aggttttttag aactcatagt gacgggtctg 240
 ttgttaatcc caggtctaac cgttaccttg attctgctga gaatctgatt tactgaaaat 300
 gtttttcttg tgcttataga atgacaatag agaacggcag gagcacaacg acagacggag 360
 ccttggccac cctgagccat tatctaattg acgaccagg gtaactcccg gcaggtgggtg 420
 gagcaagatg aggaagaaga tgaggagctg acattgaaat atggcggcna gcatgtgatc 480

atgctcnttg gccctgtgan tc

502

<210> 89

<211> 499

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)..(499)

<223> where n may be either a or g or c or t/u, unknown or other

<400> 89

ctgcagtgtt ccttttctcc acttaaaaca tgaagtaata acccctcgnt ctctcaactg 60

ctcctgacca tcacagagga tgggctctcc agctaagtca tgccccttca atgnagaggc 120

cttcaagggtg atgatgacat gctgtaaaga aaagccacac tgggtttgag aataataaaa 180

caaaactcat acgtacagct gcccatcctt ccgggtataa aagctgactg acttaatggg 240

agccaacgacc accaccatgc agagagtcac agggacaaag agcatgatca catgcttggc 300

gncatatttc aatgtcagnt cctcatcttc ttctcatct tgntccacca cctgcccggga 360

gttaccntgg gtcgtccatt agataatggg tcagggtggc caaggctccg tctgtcgttg 420

tgctcctgcc gttctctatt gtcattctat aagcacaaga aaaacatttn cagtaaatca 480

gatnctcagc agaatcaag 499

<210> 90

<211> 500

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)..(500)

<223> where n may be either a or g or c or t/u, unknown or other

<400> 90

taactcccag gntcaagatn tctnctgcg ttagcctcct gagtagctgg gactataggt 60

atgtgccact attcctgaaa acataatcag ttttgaaggt agtgtctggg ctgggcgcag	120
tggntcacgc cttcaatccc agcacttttg gaggnccagg tgggcggatc acctgaggtc	180
aggagttcga gaccagcctg accaacaatgg gataagactc catctctact aaaaatacaa	240
aaaattagcc aggcattggt gngcatgcct gtaatcccag ctactcagga ggntgaggna	300
ggagaattgg ttggaaccta ggaagcagag gctgtggtgg agccgagatc gcaccattgg	360
actccaggct gggnaacaag agtgaaaatc cntcttaaaa aaaaaaaaaa aaaggtagng	420
ttttgnccgg ngcgggggggt cacgcctgta atcccagnat tgggganggc aaggnggggg	480
gtcannangn nagnagtccg	500

<210> 91
 <211> 502
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)..(502)
 <223> where n may be either a or g or c or t/u, unknown or other

<400> 91	
gaattctgct gacatgtcct atgttctttt ctcccctact ccttcctact gtcagnaatg	60
aagggtaggg ctccagcctg gaccctgaag taagctagag gttagaagct aaagaagaaa	120
gaaggagatt gagtccttng atgaacgtga agccaccgta ctaatctgga ctgcctacct	180
ctgcactact ctatgagaga gaaagtatgt gcattattta aaccagttgg gttgattttc	240
tattaacaaa gtcagaaaca tctctgtaaa aagccagact gaatatatta agctctatgg	300
gtcatatggg ctccagggca aacactcaac tgtgctactg tagtgtgaaa gcaggcacag	360
acaatgtatt aaccaaggag ggtgggtcact ttccaatgaa agtttatcac aaattggnga	420
atacttggtt ttacaccnng ggggaaggta ggagaagatc ttgcctgtgg ttgtngntgg	480
caatgttggt cttttatacg ng	502

<210> 92

<211> 495
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)..(495)
<223> where n may be either a or g or c or t/u, unknown or other

<400> 92
gaattctctc cttagaagtt ccatacacia cacatctccc tagaagtcac tggccttact 60
tggtctcata gccatcctaa atataaggga gtcagaagta aagtctggnt ggctgggaat 120
attggcacct ggaataaaaa tgtttttctg tgaatgagaa acaaggggaa gatggatatg 180
tgacattatc ttaagacaac tccagttgca attactctgc agatgagagg cactaattat 240
aagccatatt acctttcttc tgacaaccac ttgtcagccc acgtgggttc tgtggcagaa 300
tctggttcta taacaagttc ctaataagct gtagccaaaa aaatttgatg aggtattata 360
attatttcaa tataaagcac ccactagatg gagccagtgt ctgcttcaca tgtaagtc 420
ttctttccat atgtagaca tttctttgaa gcaatttttag agtgtagctg tttctcaggt 480
taaaattctt agtag 495

<210> 93
<211> 500
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)..(500)
<223> where n may be either a or g or c or t/u, unknown or other

<400> 93
tatggttgcc tattcttgtc acagtaactn aactgatcta ggaaagaaaa aatgttttgt 60
cttctagaga taagttaatt tttagttttc ttctctctca ctgtggaaca ttcaaaaaat 120
acaaaaagga agccagggtgc atgtgtaatg ccaggctcag aggctgaggc aggaggatcg 180
cttggggcca ggagttcaca agcagcttgg gcaacgtagc aagaccctgc ctctattaaa 240

<400> 95
gacctagaaa agaaagcatt tcaanntaat taacagggtcc cacaaccctt aaaaagtaca 60
gatttttttt ttcttttnngg agacaggggtc tcactttgtc gcccagactg gagtgcagtg 120
gcacgatctc agctcaccac ancctctgcc tcctgggttc aagnanttct cgtgcttang 180
cctcctgagt aggtggaacc acgcgtgtgc gccaccacgc taggctactt tntgtatttt 240
tagtagagac agggtttcgc catnttgccc aggetgntct caaattcctg acccncaagt 300
gatccccccn ccttcagtac tccccatcag 330

<210> 96
<211> 382
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)..(382)
<223> where n may be either a or g or c or t/u, unknown or other

<400> 96
gggtggnCGTt ctagaactag tggcncccaa ggnagaagaa gttttcttag tacagaacaa 60
aatgaaangt ctcccatgtc tacttctttc tacacagaca cggcattccat ccgtttttct 120
cantctttcc nccacctttc ccgtctttct attccacaaa gccgncattg tcctcctggc 180
cctttctcaa tgagctgttg nntacacctc ccagacggcg tgggtggnCGg tcagagggggc 240
tcctcacttc ccagtagggg tggccgngca gngggtgccc cncaccccc gggcgggggtg 300
gttngtcnn ccgnggggnt gcacncccc caccctccc cncctctncta ctggcggtcg 360
tntattncan natctttaag ca 382

<210> 97
<211> 360
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature

<222> (1)..(360)
<223> where n may be either a or g or c or t/u, unknown or other

<400> 97
ggatccaaag gaagttagag gccagctcag tctacacctg ctactgntca gtgcccaccc 60
ggtcaagggga gaccaacaca tggtaaaggt caagggcttc ttggaaggca gtcagcagcc 120
tgtgcaagat gttctccaca ctgctcagnt taaggggagc tgggggcagg acctcagctg 180
gnatctctgc ttcaccagtg tccagggggt gcacaattct tgtttactcg taggatattt 240
aatcttggnn ggtgctatca taaatgggac ttatccnctn attatgtttt cttactagtt 300
gtttatgtga aggttattga tttgggtttc actttatttn gtggnaatgg agtttcactc 360

<210> 98
<211> 208
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)..(208)
<223> where n may be either a or g or c or t/u, unknown or other

<400> 98
aatgtcacgg attccttttag gtagntacac ccatcaacct ttttgagaat aaaatgaatt 60
gagagtgtta cagtctaatt ctatatcaca tgtaactttt atttggatat atcagtaata 120
gtgctttttt tttttttttt tttttttttt ttttttttng gnganagagt ctcgctctgt 180
cgccaggttg gagtgnaatg gtgcgata 208

<210> 99
<211> 470
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)..(470)
<223> where n may be either a or g or c or t/u, unknown or other

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<400> 99
aacaaggttt ctcggtcggc ggtgaatata ccggggcgtc gatatttggt gcggaatact      60
cccctgaccg taaacgtggc tttatgggca gctggctgga cttecggttct attgccgggt      120
ttgtgctggg tgcgggcgtg gtggtgttaa tttcgaccat tgtcggcgaa gcgaacttcc      180
tcgattgggg ctggcgtatt ccgttcttta tcgctctgcc gttagggatt atcgggcctt      240
acctgcgcca tgcgctggaa gagactccgg cgttccagca gnatgtcgat aaactggaac      300
agggcgaccg tgaaggtttg gaggatggcc cgaaagtctc gtttaaagag attggcacta      360
aatactggng cagnctgttg aatgtttggg cttggtaatt ggcaaccaac gtgattacta      420
natgttggtg acctatattg ccgagttatt ggcgataac ctgaattatc      470

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<210> 100
<211> 440
<212> DNA
<213> Homo sapiens

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<220>
<221> misc_feature
<222> (1)..(440)
<223> where n may be either a or g or c or t/u, unknown or other

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<400> 100
taattatatt gaaatgcttc tcntctaggt catccatgnc tggnttatta tatcatctct      60
attgntgntg ctctttttta catncattta cttggggtaa gttgtgaaat ttgggggtctg      120
tctttcagaa ttaactacct nngtgctgtg tagctatcat ttaaagccat gtactttgnt      180
gatgaattac tctgaagttt taattgtntc cacatatagg tcatacttgg tatataaaag      240
actagncagt attactaatt gagacattct tctgtngctc ctngcttata ataagtagaa      300
ctgaaagnaa cttaagacta cagttaattc taagcctttg gggaaggatt atatagcctt      360
ctagtaggaa gtcttgtgcn atcagaatgt ttntaaagaa agggtnntcaa ggaatngtat      420
aaanaccaaa aataattgat      440

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<210> 101

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<211> 449
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)..(449)
<223> where n may be either a or g or c or t/u, unknown or other

<400> 101
aaaacaaagc ctcttgaggt tctgaaaagg gaaagaaaaa cagaactttg tgcactacaa 60
ttatactggt ataaaaaaca cttccataga ttacattaag cagaaacaaa cctttctttc 120
atgtgttctc ctccaggcca agctgtctaa ggaccgcaaa ggctgttggt acttgcaggc 180
tcccagatta ggtctgaaat aggatttcac cagggtcatcc attgtagtt aaatcctagt 240
aaattcattt anaccaatca aatacttata agaccaattt gtaaaccagg aatgtattaa 300
tttgtcacga ctttcaacta actgacaaat ttactataag ctcaaggtag gactctttag 360
caataagtag gaaccgcctg agacaaccaa acattttcaa cccacaaang atactttaat 420
gactttctga tttncagca aaagggggg 449

<210> 102
<211> 425
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)..(425)
<223> where n may be either a or g or c or t/u, unknown or other

<400> 102
ggatccgccc tcctcggcct cccaaagtgt tgggattaca ggcgtgagcc accgcacctg 60
gctttttttt tttttttttt tggnggagac agagtcttac tctgttgccc aagctggagt 120
gcagtgggtgc aatcttggtt cactgnaacc tccacctcca gagttcaagc aattctctgc 180
ctcagtttct ggagtagctg ggattacagg tgccctgcat cagcctggc taaatttggn 240
attttttttt agtagagaca gggtttcacc atgttggtcca ggctgggtctt gaactcctga 300

ccttgtgatc caccagcctc ggcctcccaa attgntggga ttacaggcgt gagccaccac 360
aaccaggcta aagttttaaa acatgccaaag tgtatttaca taatgcgata cganttatgt 420
acata 425

<210> 103
<211> 386
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)..(386)
<223> where n may be either a or g or c or t/u, unknown or other

<400> 103
ggatccgccc gccttggcct cccaaagtgc tgggattaca ggcattgagcc accgctcctg 60
gctgagtctg cgatttcttg ccagctctac ccagttgtgt catcttaagc aagtcactga 120
acttctctgg attcccttct cctnttgtaa aataagcatg ttatctgtcc nncctgcctt 180
gggcattgtg ataaggataa gatgacatta tagaatntng caaaattaaa agcgctagac 240
aaatgatttt atgaaaatat aaagattagn ttgagtttgg gccagcatag aaaaaggaat 300
gttgagaaca ttccnttaag gattactcaa gctccctttg gtgtatatca gnngtcanna 360
cntatcttng gggctgaaaa atgttt 386

<210> 104
<211> 224
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)..(224)
<223> where n may be either a or g or c or t/u, unknown or other

<400> 104
gaaaagggaag agaaaaacag aactttgtgc actacaatta tactgttata aaaaacactt 60

ccatagatta cattaagcag aaacaaacct ttctttcatg tggtctctc caggccaagc 120
 tgtctaagga ccgcaaaggc tggtgtcact tgcaggctcc cagattaggt ctgaaatagg 180
 atttcaccag gtcattccatt gttagttaaa tcctagtaaa tnca 224

<210> 105
 <211> 440
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)..(440)
 <223> where n may be either a or g or c or t/u, unknown or other

<400> 105
 ggatccgccc tcctcggcct cccaaagtgt tgggattaca ggcgtgagcc accgcacctg 60
 gctttttttt tttttttttt tggnggagac agagtcttac tctgttgccc aagctggagt 120
 gcagtgggtgc aatcttggtt cactgcaacc tccacctcca gagttcaagc aattctctgc 180
 ctcagtttct ggagtagctg ggattacagg tgccctgccat cacgcctggn taaatttggg 240
 attttttttt agtagagaca gggtttcanc atgttggtcca ggntgggtctt ggactcctga 300
 cctgggtgaac caccaggctc gggctccaaa tttgggtggg attacagggg gtnaanacaac 360
 cacaaccag nctaaagttt tnaaaacatn caaagtgttt taaaatnatg ngatacgatt 420
 tattgtacaa ttaattttat 440

<210> 106
 <211> 448
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)..(448)
 <223> where n may be either a or g or c or t/u, unknown or other

<400> 106
 gtctttccca tcttctccac agagtttgtg ccttacatta ttactccttg ccattttcaa 60

gaaagcattg tcagctcttc caatctccat cacctttggg cttgttttct actttgccac	120
agattatctt gtacagcctt ttatggacca attagcattc catcaatttt atatctagca	180
tatttgcggn tagaatccca tggatgtttc ttctttgact ataacaaaat ctggggagga	240
caaaggtgat tttcctgtgt ccacatctaa caaagtcaag atccccggct ggacttttgg	300
aggttccttc caagtcttcc tgaccacctt gcactattgg actttggnaa ggaggtgcct	360
atagaaaacg attttggaac atacttcac gcagggggac tgtgtcccc ggtggcagaa	420
nctaccaaga tttgcgggnc gaggtcaa	448

<210> 107
 <211> 198
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)..(198)
 <223> where n may be either a or g or c or t/u, unknown or other

<400> 107	
ggatccgccc gccttggcct cccaaagtgc tgggattaca ggcattgagcc accgctcctg	60
gctgagtctg cgatttcttg ccagctctac ccagttgtgt catcttaagc aagtcactga	120
acttctctgg attcccttct ccttnagtaa aataagnatg ttatctgncc gccctgcctn	180
ggnnattgng ataaggat	198

<210> 108
 <211> 500
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)..(500)
 <223> where n may be either a or g or c or t/u, unknown or other

<400> 108

ctgcagtgag ccgatgattgc accactttac tccagcctgg gcaacaaaat gagaccctgg	60
ctcaaaaaca aaaacaaaaa caaaaaaaga gttaaattaat ttaaagggaa gtattaaata	120
aataatagca cagttgatat aggttatggg aaaattataa aggtgggata ttaatattcta	180
atgtttggga gccatcacat tattctaaat aatgtnttgg tgaaaattat tgtacatctt	240
ttaaaatctg tgtaattttt tttcagggaa gtgttttaaaa cctataacgt tgctgtggac	300
tacattactg ttgcactcct gatctggaat tttgggtgtg gtgggaatga tttccattca	360
ctggaaaggt ccacttcgac tccagcaggc atatctcatt atgattagt cctcatggnc	420
ctggtgttta tcaaagtacc tccctgaatg gactgcgtgg gtcattcttg ntgtgattca	480
gtatatggta aaaccaaga	500

<210> 109

<211> 500

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)..(500)

<223> where n may be either a or g or c or t/u, unknown or other

<400> 109

ctgcagcctt gacctcctgg gatcaatcga tcctcccacc tcagcctcct aagtagctgg	60
aactacaggt gtgcaccacc atgcccggct aatngntgta ttttctgtag atacgaggtn	120
tngccatgtt gcccaggctg gtcttgaact ctgggcttag gtgatctgcc cgcctcagcc	180
tcccaaagtg ctaagattac aggcattgagc taccatgccc agccgaaatc ttcaaagtga	240
aaagttacta tagctaatta atgatttact gaagagttat gggatgtaca cgttaccatt	300
ttctctaaat caagataaag agatgaggaa agaaaacact ccagtggggc attcctgtna	360
caaaacaaat tatcagtcctt ggggtttnac catatactga aatcacaggc aagatgagcc	420
acgcagtcca tncaggaggg tactggataa caccagggnc atgagggact aatcataatg	480
agatatgctg ctggagtcga	500

<210> 110
<211> 241
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)..(550)
<223> where n may be either a or g or c or t/u, unknown or other

<400> 110
cncnnnnnnnn nnnnnnnnatt tngtctgtgc cgntaaata ttaattgtcc ctatacanta 60
ataagantgt gtcagagctc ttaatgtcaa aactttgatt acacagtccc ttaaggcag 120
ttctgtttta accccaggtg ggtaaataat tccagctatc tgaggagctt ttngataatt 180
ggacctcacc ttagtagttc tctaccctgg ccacacatta gaatcacttg ggagctttta 240
a 241

<210> 111
<211> 241
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)..(541)
<223> where n may be either a or g or c or t/u, unknown or other

<400> 111
tcnnnnnnnnn nccccntaaa tttctccctg ccccgnaaag gttacaaata tcaaaaagnt 60
ggtcactctt nggtatgatt tcacaattca aaactatcac tgccctactc aacccccaaa 120
tgaatgagag aagtcagtaa atgatataca aaattaggct tcagctgtgt ttncctttctt 180
tngggggttn ctacaatagg agtnccagat tctatgtgac tgactctgga gtcttaactg 240
t 241

<210> 112
<211> 241

<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)..(241)
<223> where n may be either a or g or c or t/u, unknown or other

<400> 112
nncccnccn nnnnnnttn ntnttgcccg ataactatag ggngacttgg agatccaccg 60
cggtggcggn cgntctagaa ctagtggatc ccccgggntg caggacccaa cgctgccga 120
gatgcgccgc gtgcggttgc tggagatggc ggacgcgatg gatatgttct gccaaggggt 180
ggtttgcgca ttcacagttc tccgcaagaa ttgattggct ccaattcttg gagtggtgaa 240
t 241

<210> 113
<211> 241
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)..(834)
<223> where n may be either a or g or c or t/u, unknown or other

<400> 113
ccccccncc nnnnttttn ngcagcccg aattaccctc actnccggga acaaaagctg 60
ggtaaccgggc ccccctcga ggtcgacggt atcgataagc ttgatatcga attcctgcag 120
tgtttaaaaa ataaaataaa ctaaaagttt atttatgagg agtacactgc tttcttgtaa 180
acacatgtac aagccatata atagagttca ttttttacct tagttacgga aacactagaa 240
a 241

<210> 114
<211> 241
<212> DNA
<213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)..(838)
 <223> where n may be either a or g or c or t/u, unknown or other

<400> 114
 ttgggcncnc gcccttaan tttttatngn ttntctanaaa aanannnggc ncnntaaaat 60
 atatttttttn ttgtgacccc ttttaaaagg gaccncctaa aaaattttnt ggtnnttttn 120
 gatttangtg ggtgnttttn ttatatTTTT gngagnntc tgtagtcntc nccctcaaac 180
 anntcntacn atnggnancg tgactctgtc nttngtnann ntcgntntcn ngtnattcna 240
 g 241

<210> 115
 <211> 241
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)..(803)
 <223> where n may be either a or g or c or t/u, unknown or other

<400> 115
 attcgcgcgt agcccgataa ctatagggcg acntggagnt ccaccgcggt ggcggccgct 60
 ctagnaacta gtggatcccc cgggctgcag gaattcacgg actaatcctc tacagatctt 120
 gctggagtgg cctttcagcc ttttgtgact gtttgtagtg aaatgtacac acaagcctac 180
 aaggcagccc agatgtacca taactgtggg aaaattaaaa aaaaaaaaaac acagaacctc 240
 t 241

<210> 116
 <211> 181
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)..(780)

<223> where n may be either a or g or c or t/u, unknown or other

<400> 116

cnnnnnnnncc cnnatnatnt acgccagccg cgtaattaac cctcactaaa gggaacaaaa 60
gctgggtacc gggccccccc tcgaggtcga cggatcgcg aagcttgata tcgaattcca 120
actcctcact tgccagatgt gacctaagc aagtgaactt ctgtgtgcca cactgttttc 180
a 181

<210> 117

<211> 241

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)..(803)

<223> where n may be either a or g or c or t/u, unknown or other

<400> 117

nnnnnnnnnc cnnnnnnttc gnncgtaach cgantcacta tagggcgact tggagctcca 60
ccgcggtggc ggccgctcta gaactagtgg atcccccggg ctgcaggaat tcgatatcaa 120
gctttngtgt gtaaaaagta ttagaatctc atgtttttga acaagggttg cagtgggttg 180
ggaggaggga ttggagattg atgcgatagg aatgtgaagg gatagcttgg ggtggatttt 240
a 241

<210> 118

<211> 241

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)..(819)

<223> where n may be either a or g or c or t/u, unknown or other

<400> 118

tncnnnnncn nnnnnaattt tngcagncgc gtaattaacc tcactaaagg gaacaaaagc 60

tggtgaccgg gccccccctc gaggtcgacg gtatcgataa gcttccctcc ccttcctcag	120
ctctggcgac cctgcgctgt ggtgggttctc caaccacact cattctcctc agctggctcc	180
ttgctcttct tccaccccct cgttggaagt gttcctaagt gtttggttg gcctcctctt	240
c	241

<210> 119
 <211> 241
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)..(796)
 <223> where n may be either a or g or c or t/u, unknown or other

<400> 119	
tnttggtg tactgcttga gcaactggtg aaactccgcg cctcacgccc cggtgtgtgc	60
cttgctcagg ggcgacgagc attctgggcg aagtccgcac gcctcttggt cgaggcggaa	120
gacgggggtct gatgctttct ccttggtcgg gactgtctcg aggcattgcat gtccagtgc	180
tcttggtgtt gctgctgctt cctctcaga ttcttctcac cgttgtggtc agctctgctt	240
t	241

<210> 120
 <211> 241
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)..(802)
 <223> where n may be either a or g or c or t/u, unknown or other

<400> 120	
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gcagggnccg gncctttgtg gccgcccggg ccgcgaagcc ggtgtcctaa aagatgaggg	120

gcggggcgcg gncggttggg gctggggaac cccgtgtggg aaaccaggag gggcggcccc 180
 tttctcgggc ttcgggcgcg gccgggtgga gagagattcc ggggagcctt ggtccgga 240
 t 241

<210> 121
 <211> 241
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)..(793)
 <223> where n may be either a or g or c or t/u, unknown or other

<400> 121
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 tcgaggtcga cggtatcgat aagcttgata tcgaattcct gcagcccggg ggatccgccc 120
 cgcggcctcc caaagtgctg ggattacagg cgtgagccac cgccccgggn ctacatcttt 180
 atttctattg gctagcgctg ctctaaatct tctgttcctt ctgctacacc aggcctaaca 240
 c 241

<210> 122
 <211> 440
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)..(440)
 <223> where n may be either a or g or c or t/u, unknown or other

<400> 122
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 agagtgttac agtctaattc tatatcacat gtaactttta tttggatata tcagtaatag 120
 tgctttttcn tttttttttt ttnttttttt tnnttttngg gganagagtc tcgctctgtc 180
 gccaggttgg agtgcaatgg tgcgatcttg gctcactgaa agctccacn cccgggttca 240

agtgattctc ctgcctcagc cncccaagta gntgggacta caggggtgcg ccaccacgcc 300
 tgggataatt ttgggnnttt tagtagagat ggcgtttcac cancttgng caggctggtc 360
 ttggaactcc tganatcatg atctgcctgc cttagcctcc ccaaagtgct gggattncag 420
 gggtgagcca ctgttcctgg 440

<210> 123

<211> 453

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)..(453)

<223> where n may be either a or g or c or t/u, unknown or other

<400> 123

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 tgggttaaatt attccagcta tctgaggagc ttttngataa ttggacctca ccttagtagt 180
 tctctaccct ggccacacat tagaatcact tgggagcttt taaaactgta agctctgccc 240
 tgagatattc ttactcaatt taattgtgta gtttttaaaa ttccccagga aattctggta 300
 tttctgttta ggaaccgctg cctcaagcct agcagnacag atatgtagga aattagctct 360
 gtaaggttgg tcttacaggg gataaacaga tccttcctta gncctggga cttaatcact 420
 gagagtttgg gtggngggtt ngnatttaat gac 453

<210> 124

<211> 369

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)..(369)

<223> where n may be either a or g or c or t/u, unknown or other

<400> 124
gacacacatt cacacataat tatgaaagca ttttcaggca aaactcaatc acaagtctgg 60
gtttttaaca tagttaactg aatatttccc ttgggggggtt aaattttaga acagacgtnc 120
atncaatctg gaagaagagc tatgaaaaaa acctagcttg ggtnggtttc atagggtnca 180
ttatgnacac attggttattt tatcccttaa tnctagtaaa gaaatagaat ctgaaaataa 240
gtaaaactac ttggaaaaaa nttaaaagat acagaaattt ctatcttaaa tgatgtgtgg 300
gccnctgtga ttttagtngg gntgggttaa ancccagagg tgaagagnat nctctatgct 360
gtgngggggg 369

<210> 125
<211> 516
<212> DNA
<213> Homo sapiens

<220>
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<222> (1)..(516)
<223> where n may be either a or g or c or t/u, unknown or other

<400> 125
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tgctcccgca caggatagag aatgcccccg cacagcatag agaagcccc gcacagcata 120
gagaatgccc ccncacagca tagagaagcc cccgcacagc atagagaatg ctcttcacct 180
ctgggttttt aaccagccaa actaaaatca cagaggscma cacatcattt aagatagaaa 240
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actagaatta agggataaaa taacaatgtg tgcataatga accctatgaa acmaacmmaa 360
gctaggtttt tttcatagst cttcttcag attgaatgaa cgtctgttct aaaatttaac 420
ccccaggga aatattcagt taactatgtt aaaaaccag acttgtgatt gagttttgcc 480
tgaaaatgct ttcataatta tgtgtgaatg tgtgtc 516

<210> 126

<211> 121
 <212> DNA
 <213> Homo sapiens

<400> 126
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 t 121

<210> 127
 <211> 18
 <212> DNA
 <213> Artificial Sequence

<400> 127
 tggagactgg aacacaac 18

<210> 128
 <211> 21
 <212> DNA
 <213> Artificial Sequence

<400> 128
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<210> 129
 <211> 19
 <212> DNA
 <213> Artificial sequence

<400> 129
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<210> 130
 <211> 21
 <212> DNA
 <213> Artificial Sequence

<400> 130
 tgaaatcaca gccaaagatga g 21

<210> 131

<211> 19
 <212> DNA
 <213> Artificial Sequence

<400> 131
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<210> 132
 <211> 19
 <212> DNA
 <213> Artificial Sequence

<400> 132
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<210> 133
 <211> 2792
 <212> DNA
 <213> Homo sapiens

<400> 133
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 ctgggagcct gcaagtgaca acagcctttg cggtccttag acagcttggc ctggaggaga 180
 acacatgaaa gaaagaacct caagaggctt tgttttctgt gaaacagtat ttctatacag 240
 ttgtccaat gacagagtta cctgcaccgt tgtcctactt ccagaatgca cagatgtctg 300
 aggacaacca cctgagcaat actgtacgta gccagaatga caatagagaa cggcaggagc 360
 acaacgacag acggagcctt ggccaccctg agccattatc taatggacga ccccagggta 420
 actcccggca ggtggtggag caagatgagg aagaagatga ggagctgaca ttgaaatatg 480
 gcgccaagca tgtgatcatg ctctttgtcc ctgtgactct ctgcatgggtg gtggtcgtgg 540
 ctaccattaa gtcagtcagc ttttataccc ggaaggatgg gcagctaatac tatacccat 600
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gaagcaaaaa aaaaaaaaaa aaaaaaaaaa aa 2792

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<210> 134
<211> 467
<212> PRT
<213> Homo sapiens

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<400> 134

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          20          25          30
Arg Glu Arg Gln Glu His Asn Asp Arg Arg Ser Leu Gly His Pro Glu
          35          40          45
Pro Leu Ser Asn Gly Arg Pro Gln Gly Asn Ser Arg Gln Val Val Glu
          50          55          60
Gln Asp Glu Glu Glu Asp Glu Glu Leu Thr Leu Lys Tyr Gly Ala Lys
65          70          75          80
His Val Ile Met Leu Phe Val Pro Val Thr Leu Cys Met Val Val Val
          85          90          95
Val Ala Thr Ile Lys Ser Val Ser Phe Tyr Thr Arg Lys Asp Gly Gln
          100         105         110
Leu Ile Tyr Thr Pro Phe Thr Glu Asp Thr Glu Thr Val Gly Gln Arg

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115					120					125					
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130					135					140					
Val	Met	Thr	Ile	Leu	Leu	Val	Val	Leu	Tyr	Lys	Tyr	Arg	Cys	Tyr	Lys
145				150					155					160	
Val	Ile	His	Ala	Trp	Leu	Ile	Ile	Ser	Ser	Leu	Leu	Leu	Leu	Phe	Phe
				165				170						175	
Phe	Ser	Phe	Ile	Tyr	Leu	Gly	Glu	Val	Phe	Lys	Thr	Tyr	Asn	Val	Ala
			180				185						190		
Val	Asp	Tyr	Ile	Thr	Val	Ala	Leu	Leu	Ile	Trp	Asn	Phe	Gly	Val	Val
	195					200					205				
Gly	Met	Ile	Ser	Ile	His	Trp	Lys	Gly	Pro	Leu	Arg	Leu	Gln	Gln	Ala
210					215					220					
Tyr	Leu	Ile	Met	Ile	Ser	Ala	Leu	Met	Ala	Leu	Val	Phe	Ile	Lys	Tyr
225				230				235						240	
Leu	Pro	Glu	Trp	Thr	Ala	Trp	Leu	Ile	Leu	Ala	Val	Ile	Ser	Val	Tyr
				245				250						255	
Asp	Leu	Val	Ala	Val	Leu	Cys	Pro	Lys	Gly	Pro	Leu	Arg	Met	Leu	Val
			260				265						270		
Glu	Thr	Ala	Gln	Glu	Arg	Asn	Glu	Thr	Leu	Phe	Pro	Ala	Leu	Ile	Tyr
		275				280					285				
Ser	Ser	Thr	Met	Val	Trp	Leu	Val	Asn	Met	Ala	Glu	Gly	Asp	Pro	Glu
	290				295					300					
Ala	Gln	Arg	Arg	Val	Ser	Lys	Asn	Ser	Lys	Tyr	Asn	Ala	Glu	Ser	Thr
305				310					315					320	
Glu	Arg	Glu	Ser	Gln	Asp	Thr	Val	Ala	Glu	Asn	Asp	Asp	Gly	Gly	Phe
				325				330					335		
Ser	Glu	Glu	Trp	Glu	Ala	Gln	Arg	Asp	Ser	His	Leu	Gly	Pro	His	Arg
			340				345						350		
Ser	Thr	Pro	Glu	Ser	Arg	Ala	Ala	Val	Gln	Glu	Leu	Ser	Ser	Ser	Ile
		355				360					365				
Leu	Ala	Gly	Glu	Asp	Pro	Glu	Glu	Arg	Gly	Val	Lys	Leu	Gly	Leu	Gly
370					375					380					

Asp Phe Ile Phe Tyr Ser Val Leu Val Gly Lys Ala Ser Ala Thr Ala
385 390 395 400

Ser Gly Asp Trp Asn Thr Thr Ile Ala Cys Phe Val Ala Ile Leu Ile
405 410 415

Gly Leu Cys Leu Thr Leu Leu Leu Leu Ala Ile Phe Lys Lys Ala Leu
420 425 430

Pro Ala Leu Pro Ile Ser Ile Thr Phe Gly Leu Val Phe Tyr Phe Ala
435 440 445

Thr Asp Tyr Leu Val Gln Pro Phe Met Asp Gln Leu Ala Phe His Gln
450 455 460

Phe Tyr Ile
465

<210> 135

<211> 1964

<212> DNA

<213> Mus musculus

<220>

<221> misc_feature

<222> (1)..(1964)

<223> where n may be either a or g or c or t/u, unknown or other

<400> 135

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cacatgagag aaagaatccc aagagggtttt gttttctttg agaaggtatt tctgtccagc 180

tgctccaatg acagagatac ctgcaccttt gtctacttc cagaatgccc agatgtctga 240

ggacagccac tccagcagcg ccatccggag ccagaatgac agccaagaac ggcagcagca 300

gcatgacagg cagagacttg acaaccctga gccaatatct aatgggcggc cccagagtaa 360

ctcaagacag gtggtggaac aagatgagga ggaagacgaa gagctgacat tgaaatatgg 420

agccaagcat gtcacatgc tctttgtccc cgtgaccctc tgcaggtcg tcgtcgtggc 480

caccatcaaa tcagtcagct tctatacccg gaaggacggt cagctaattc acacccatt 540

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<210> 136
 <211> 467
 <212> PRT
 <213> Mus musculus

<220>
 <221> MISC_FEATURE
 <222> (1)..(467)
 <223> where X is unknown or other

<400> 136

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Gln	Glu	Arg	Gln	Gln	Gln	His	Asp	Arg	Gln	Arg	Leu	Asp	Asn	Pro	Glu	35	40	45	
Pro	Ile	Ser	Asn	Gly	Arg	Pro	Gln	Ser	Asn	Ser	Arg	Gln	Val	Val	Glu	50	55	60	
Gln	Asp	Glu	Glu	Glu	Asp	Glu	Glu	Leu	Thr	Leu	Lys	Tyr	Gly	Ala	Lys	65	70	75	80
His	Val	Ile	Met	Leu	Phe	Val	Pro	Val	Thr	Leu	Cys	Met	Val	Val	Val	85	90	95	
Val	Ala	Thr	Ile	Lys	Ser	Val	Ser	Phe	Tyr	Thr	Arg	Lys	Asp	Gly	Gln	100	105	110	
Leu	Ile	Tyr	Thr	Pro	Phe	Thr	Glu	Asp	Thr	Glu	Thr	Val	Gly	Gln	Arg	115	120	125	
Ala	Leu	His	Ser	Ile	Leu	Asn	Ala	Ala	Ile	Met	Ile	Ser	Val	Ile	Val	130	135	140	
Ile	Met	Thr	Ile	Leu	Leu	Val	Val	Leu	Tyr	Lys	Tyr	Arg	Cys	Tyr	Lys	145	150	155	160
Val	Ile	His	Ala	Trp	Leu	Ile	Ile	Ser	Ser	Leu	Leu	Leu	Leu	Phe	Phe	165	170	175	
Phe	Ser	Phe	Ile	Tyr	Leu	Gly	Glu	Val	Phe	Lys	Thr	Tyr	Asn	Val	Xaa	180	185	190	

450

455

460

Phe Tyr Ile
465

<210> 137

<211> 2285

<212> DNA

<213> Mus musculus

<220>

<221> misc_feature

<222> (1)..(2285)

<223> where n may be either a or g or c or t/u, unknown or other

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gccacagagc taaagtgact tttcccaagg tcgcccagcg aggacgtggg acttctcaga      180
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tgctgttcct cttcacctat atctaccttg ggaagtgt caagacctac aatgtggcca      960

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cagctctttg	gtgccagctg	tttcatcacc	agactttggc	tcccgccttg	gggagcgcc	1920
cgcttcacgg	acaggaagca	cagcaggttt	atccagatga	actgagaagg	tcagattagg	1980
gtggggagaa	gagcatccgg	catgagggtc	gagatgcccc	aagagtgtgc	tcgggagtgg	2040
cccctggcac	ctgggtgctc	tggctggaga	ggaaaagcca	gttccctacg	aggagtgttc	2100
ccaatgcttt	gtccatgatg	tccttggtat	tttattnccy	ttanaaactg	antcctnttn	2160
ttnttdcggc	agtcacmctn	ctgggragtg	gcttaatagt	aanatcaata	aanagntgag	2220
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aaaaa						2285

<210> 138

<211> 448

<212> PRT
 <213> Homo sapiens
 <400> 138

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Glu	Gly	Arg	Gln	Gly	Pro	Glu	Asp	Gly	Glu	Asn	Thr	Ala	Gln	Trp	Arg	35	40	45	
Ser	Gln	Glu	Asn	Glu	Glu	Asp	Gly	Glu	Glu	Asp	Pro	Asp	Arg	Tyr	Val	50	55	60	
Cys	Ser	Gly	Val	Pro	Gly	Arg	Pro	Pro	Gly	Leu	Glu	Glu	Glu	Leu	Thr	65	70	75	80
Leu	Lys	Tyr	Gly	Ala	Lys	His	Val	Ile	Met	Leu	Phe	Val	Pro	Val	Thr	85	90	95	
Leu	Cys	Met	Ile	Val	Val	Val	Ala	Thr	Ile	Lys	Ser	Val	Arg	Phe	Tyr	100	105	110	
Thr	Glu	Lys	Asn	Gly	Gln	Leu	Ile	Tyr	Thr	Pro	Phe	Thr	Glu	Asp	Thr	115	120	125	
Pro	Ser	Val	Gly	Gln	Arg	Leu	Leu	Asn	Ser	Val	Leu	Asn	Thr	Leu	Ile	130	135	140	
Met	Ile	Ser	Val	Ile	Val	Val	Met	Thr	Ile	Phe	Leu	Val	Val	Leu	Tyr	145	150	155	160
Lys	Tyr	Arg	Cys	Tyr	Lys	Phe	Ile	His	Gly	Trp	Leu	Ile	Met	Ser	Ser	165	170	175	
Leu	Met	Leu	Leu	Phe	Leu	Phe	Thr	Tyr	Ile	Tyr	Leu	Gly	Glu	Val	Leu	180	185	190	
Lys	Thr	Tyr	Asn	Val	Ala	Met	Asp	Tyr	Pro	Thr	Leu	Leu	Leu	Thr	Val	195	200	205	
Trp	Asn	Phe	Gly	Ala	Val	Gly	Met	Val	Cys	Ile	His	Trp	Lys	Gly	Pro	210	215	220	
Leu	Val	Leu	Gln	Gln	Ala	Tyr	Leu	Ile	Met	Ile	Ser	Ala	Leu	Met	Ala	225	230	235	240

Leu	Val	Phe	Ile	Lys	Tyr	Leu	Pro	Glu	Trp	Ser	Ala	Trp	Val	Ile	Leu			
				245					250					255				
Gly	Ala	Ile	Ser	Val	Tyr	Asp	Leu	Val	Ala	Val	Leu	Cys	Pro	Lys	Gly			
			260					265					270					
Pro	Leu	Arg	Met	Leu	Val	Glu	Thr	Ala	Gln	Glu	Arg	Asn	Glu	Pro	Ile			
		275					280					285						
Phe	Pro	Ala	Leu	Ile	Tyr	Ser	Ser	Ala	Met	Val	Trp	Thr	Val	Gly	Met			
	290					295					300							
Ala	Lys	Leu	Asp	Pro	Ser	Ser	Gln	Gly	Ala	Leu	Gln	Leu	Pro	Tyr	Asp			
305					310					315					320			
Pro	Glu	Met	Glu	Glu	Asp	Ser	Tyr	Asp	Ser	Phe	Gly	Glu	Pro	Ser	Tyr			
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Pro	Glu	Val	Phe	Glu	Pro	Pro	Leu	Thr	Gly	Tyr	Pro	Gly	Glu	Glu	Leu			
			340					345					350					
Glu	Glu	Glu	Glu	Glu	Arg	Gly	Val	Lys	Leu	Gly	Leu	Gly	Asp	Phe	Ile			
	355						360					365						
Phe	Tyr	Ser	Val	Leu	Val	Gly	Lys	Ala	Ala	Ala	Thr	Gly	Ser	Gly	Asp			
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Trp	Asn	Thr	Thr	Leu	Ala	Cys	Phe	Val	Ala	Ile	Leu	Ile	Gly	Leu	Cys			
385					390					395					400			
Leu	Thr	Leu	Leu	Leu	Leu	Ala	Val	Phe	Lys	Lys	Ala	Leu	Pro	Ala	Leu			
			405					410						415				
Pro	Ile	Ser	Ile	Thr	Phe	Gly	Leu	Ile	Phe	Tyr	Phe	Ser	Thr	Asp	Asn			
			420					425					430					
Leu	Val	Arg	Pro	Phe	Met	Asp	Thr	Leu	Ala	Ser	His	Gln	Leu	Tyr	Ile			
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<210> 139

<211> 31

<212> DNA

<213> Artificial Sequence

<400> 139

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31

<210> 140
<211> 25
<212> DNA
<213> Artificial Sequence

<400> 140
gaattcactg gctgtagaaa aagac

25

<210> 141
<211> 24
<212> DNA
<213> Artificial Sequence

<400> 141
ggatccggtc cacttcgtat gctg

24

<210> 142
<211> 33
<212> DNA
<213> Artificial Sequence

<400> 142
ttttttgaat tcttaggcta tggttgtggt cca

33

<210> 143
<211> 19
<212> DNA
<213> Artificial Sequence

<400> 143
gattagtggg tgttttgtg

19

<210> 144
<211> 19
<212> DNA
<213> Artificial Sequence

<400> 144
gattagtggc tgttttgtg

19

<210> 145
<211> 19
<212> DNA
<213> Artificial Sequence

<400> 145
tttttccagc tctcattta 19

<210> 146
<211> 19
<212> DNA
<213> Artificial Sequence

<400> 146
tttttccagt tctcattta 19

<210> 147
<211> 19
<212> DNA
<213> Artificial sequence

<400> 147
tacagtgttc tggttggta 19

<210> 148
<211> 19
<212> DNA
<213> Artificial Sequence

<400> 148
tacagtgttc tggttggta 19

<210> 149
<211> 19
<212> DNA
<213> Artificial Sequence

<400> 149
tacagtgttg tggttggta 19

<210> 150
<211> 1092
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)..(1092)

<223> where n may be either a or g or c or t/u, unknown or other

<400> 150

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cttaaagagt gagaaaaatt ttcccaggaa tcccgggtgga ctttgcttca ccactcatag	120
gttcatacca agttacaacc ccacaacctt agagcttttg ttaggaagag gcttggtggg	180
attaccgtgc ttggcttggc ttgggtcagga ttcaccacca gagtcatgtg ggaggggggtg	240
ggaacccaaa caattcagga ttctgccctc aggaaataaa ggagaaaata gctgttggat	300
aaactaccag caggcactgc tacagcccat gctttgtggg ttaagggcca gctagttaca	360
atgacagcta gttactgttt ccatgtaatt ttcttaaagg tattaaattt ttctaaatat	420
tagagctgta acttccactt tctcttgaag gcacagwaag ggagtcacaa gacactgttg	480
cagagaatga tgatggcggg ttcagtgagg aatgggaasc ccagrgggac antcatctag	540
ggcctcatcg ctctacacct gagtcacgag ctkctntcca ggractttcc ancagtatcc	600
tcgctgggtga agaccagag gaaagnatgt tcantttctc atntttcaaa gtcatggatt	660
cctttaggtgta gctacattat caaccttttt gagaataaaa tgaattgaga gtgttacagt	720
ctaattctat atcacatgta actttttattt ggatatatca gtaatagtgc ttttntynttt	780
tttttttttt tttttttttt ttttnngnga nagagtctcg ctctgtcgcc aggttggagt	840
gcaatggtgc gatcttggct cactgaaagc tccaccnccc gggttcaagt gattctcctg	900
cctcagcnc ccaagtagnt gggactacag ggggtgcgcca ccacgcctgg gataattttg	960
ggnttttttag tagagatggc gtttcaccan cttggngcag gctgggtcttg gaactcctga	1020
natcatgatc tgccctgcctt agcctcccca aagtgctggg attncagggg tgagccactg	1080
ttcctggggc tc	1092

<210> 151

<211> 1003

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature
 <222> (1)..(1003)
 <223> where n may be either a or g or c or t/u, unknown or other

<400> 151
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 ctccccaaaa aaaaaaatat taattaatat gatnaaatga tgcctatctc agaattcttg 120
 taaggatttc ttagkacaag tgctgggtat aaactatana ttcragatagat gncgattatt 180
 acttaytatt gttattgata aataacagca gcactctacag ttaagactcc agagtcagtc 240
 acatagaatc tggcnactcct attgtagnaa accccnmmag aaagaaaaca cagctgaagc 300
 ctaattttgt atatcattta ctgactttctc tcattcattg tgggggttgag tagggcagtg 360
 atatttttga attgtgaaat catancaaag agtgaccaac tttttaatat ttgtaacctt 420
 tccttttttag ggggagtaaa acttggattg ggagatttca ttttctacag tgttctgggtt 480
 ggtaaagcct cagcaacagc cagtggagac tggaacacaa ccatagcctg tttcgtagcc 540
 atattaattg tmmstataca ctaataagaa tgtgtcagag ctcttaaatgt cmaaactttg 600
 attacacagt ccctttaagg cagttctggt ttaaccccag gtgggttaaa tattccagct 660
 atctgaggag cttttngata attggacctc accttagtag ttctctaccc tggccacaca 720
 ttagaatcac ttgggagctt ttaaaaactgt aagctctgcc ctgagatatt cttactcaat 780
 ttaattgtgt agttttttaa attccccagg aaattctggt atttctgttt aggaaccgct 840
 gcctcaagcc tagcagcaca gatatgtagg aaattagctc tgtaaggttg gtcttacagg 900
 gataaacaga tccttcctta gtccctggac ttaatcactg agagtttggg tgggtggtttt 960
 ggattttaatg acacaacctg tagcatgcag tggtacttaa gac 1003

<210> 152
 <211> 1726
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)..(1726)

<223> where n may be either a or g or c or t/u, unknown or other

<400> 152

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tagtgagcag tgaggataac cagaggtcac tctcctcacc atcttggttt tgggtgggttt	180
tggccagctt ctttattgca accagtttta tcagcaagat ctttatgagc tgtatcttgt	240
gctgacttcc tatctcatcc cgnaactaag agtacctaac ctctgcaaa ttgmagncca	300
gnaggtcttg gncttatttn acccagcccc tattcaarat agagtngytc ttggnccaaa	360
cgccyctgac acaaggattt taaagtctta ttaattaagg taagatagkt ccttgsatat	420
gtggtctgaa atcacagaaa gctgaatttg gaaaaagggtg cttggasctg cagccagtaa	480
acaagttttc atgcagggtg cagtatttaa ggtacatctc aaaggataag tacaattgtg	540
tatgttggga tgaacagaga gaatggagca anccaagacc caggtaaaag agaggacctg	600
aatgccttca gtgaacaatg atagataatc tagactttta aactgcatac ttctgttaca	660
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gtctaaccgt taccttgatt ctgctgagaa tctgatttac tgaaaatgtt tttcttgtgc	780
ttatagaatg acaatagaga acggcaggag cacaacgaca gacggagcct tggccaccct	840
ganccattat ctaatggacg acccagggta actcccggca ggtggtggan caagatgagg	900
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tttctttaca gcatgtcatc atcaccttga aggcctctnc attgaagggg catgacttag	1140
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catgttttaa gtggagaaaa ggaacactgc agaagtatgt ttctgtatg gtattactgg	1260
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gcgcccattg ntcttctgcc tagaatatc tttcctttnc tnaactkgnn ggattaaatt	1380

cctgtcatcc cctcctctt ggtgttatat ataaagtntt ggtgccgcaa aagaagtagc	1440
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gtgcaccnt acagatggaa caatggcaag cgcacatttg ggacaaggga ggggaaagg	1560
ttcttatccc tgacacacgt ggtcccnct gntgtgtnt nccccactg antagggtta	1620
gactggacag gcttaaacta attccaattg gntaatttaa agagaatnat ggggtgaatg	1680
ctttgggagg agtcaaggaa gaggtaggtag naggttaactt gaatga	1726

<210> 153

<211> 1883

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)..(1883)

<223> where n may be either a or g or c or t/u, unknown or other

<400> 153

cncgtataaa agaccaacat tgccancnac aaccacaggc aagatcttct cctaccttcc	60
cccnnggtgt aataccaagt attcnccaat ttgtgataaa ctttcattgg aaagtgacca	120
ccctccttgg ttaatacatt gtctgtgcct gctttcacac tacagtagca cagttgagtg	180
tttgccctgg agaccatatg acccatagag cttaaaatat tcagtctggc tttttacaga	240
gatgtttctg actttgttaa tagaaaatca acccaactgg tttaaataat gcaacatactt	300
tctctctcat agagtagtgc agaggtagnc agtccagatt agtasggtgg cttcacgttc	360
atccaaggac tcaatctcct tctttcttct ttagcttcta acctctagct tacttcaggg	420
tccaggctgg agccctascc ttcatttctg acagtaggaa ggagtagggg agaaaagaac	480
ataggacatg tcagcagaat tctctcctta gaagttccat acacaacaca tctccctaga	540
agtcattgcc cttacttggt ctcatagcca tcctaaatat aaggaggatca gaagtaaagt	600
ctkkntggct gggaatattg gcacctggaa taaaaatggt tttctgtgaa tgagaaacaa	660
ggggaagatg gatatgtgac attatcttaa gacaactcca gttgcaatta ctctgcagat	720

gagaggcact	aattataagc	catattacct	ttcttctgac	aaccacttgt	cagcccnegt	780
ggtttctgtg	gcagaatctg	gttcyatamc	aagttcctaa	taanctgtas	ccnaaaaaat	840
ttgatgaggt	attataatta	tttcaatata	aagcaccac	tagatggagc	cagtgtctgc	900
ttcacatggt	aagtccttct	ttccatatgt	tagacatttt	ctttgaagca	atttttagagt	960
gtagctgttt	ttctcaggtt	aaaaattctt	agctaggatt	ggtgagttgg	ggaaaagtga	1020
cttataagat	ncgaattgaa	ttaagaaaaa	gaaaattctg	tgttggaggt	ggtaatgtgg	1080
ktggtgatct	ycattaacac	tgancatagg	ctttkgkgtt	tgktttattg	tagaatctat	1140
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gctgccatca	tgatcagngt	cattgtwgtc	atgactannc	tcctgggtgg	tcwgtataaa	1260
tacaggtgct	ataaggtgag	catgagacac	agatctttgn	ttccaccct	gttcttctta	1320
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tctagagata	agttaatttt	tagttttctt	cctcctcact	gtggaacatt	caaaaaatac	1440
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aaacaaaaaa	caaataattgg	aagtatttta	tatgcatgga	atctatatgt	catgaaaaaa	1620
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agttgtaact	gaaaaataaa	catttccata	taatagcaca	atctaagtgg	gtttttgntt	1800
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ggcacgattt	tggtcactg	cag				1883

<210> 154
 <211> 1990
 <212> DNA
 <213> Homo sapiens

 <220>
 <221> misc_feature

<222> (1) .. (1990)

<223> where n may be either a or g or c or t/u, unknown or other

<400> 154

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nctktcttta	cccmacanct	ggacmaagag	caggcaagat	ncaanaatca	agtgacccag	180
ncaaaccaga	cacattttct	gctctcagct	agcttgccac	ctagaaagac	tggttgtcna	240
agttggagtc	caagaatcgc	ggaggatggt	taaaatgcag	tttctcaggt	tctcnccacc	300
caccagaagt	tttgattcat	tgagtgggtg	gagagggcag	agatatattg	gattttaaca	360
gcattctctt	gattgtgatg	cagctgggtc	scaaataagg	accctaaaga	aatgacaggt	420
gttaaattta	ggatggccat	cgcttgatg	ccgggagaag	cacacgctgg	gccaatttta	480
tataggggct	ttcgtcctca	gctcgagcar	cctcagaacc	ccgacaaccy	acgccagckc	540
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ggccggttgg	ggctggggaa	ccccgtgtgg	gaaaccagga	ggggcgcccc	gtttctcggg	1020
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ccgcgcctca	cgccccgggt	gtgtccttgt	ccaggggcga	cgagcattct	gggcgaagtc	1260
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gtctcgaggc atgcatgtcc agtgactctt gtgtttgctg ctgcttcct ctcagattct	1380
tctcaccgtt gtggtcagct ctgctttagg catattaatc catagtggag gctgggatgg	1440
gtgagagaat tgaggtgact tttccataat tcaggtgaga tgtgattaga gtycggatcc	1500
tncggtggtg gcagaggctt accaagaaac actaacggga catgggaacc aattgaggat	1560
ccagggaata aagtgtgaag ttgactagga ggttttcagt ttaagaacat ggcagagaca	1620
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aanctaagga aggggaagag gaggccaaagc caaacactta ggaacacttn cnacgagggg	1860
gtggaagaag agcaaggagc cagctgagga gaatgagtgt ggttgagaa ccaccacagc	1920
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<210> 155
 <211> 736
 <212> DNA
 <213> Homo sapiens

<400> 155	
gtctttccca tcttctccac agagtttgtg ccttacatta ttactccttg ccattttcaa	60
gaaagcattg tcagctcttc caatctccat cacctttggg cttgttttct actttgccac	120
agattatctt gtacagcctt ttatggacca attagcattc catcaatttt atatctagca	180
tatttgcggt tagaatccca tggatgtttc ttctttgact ataacaaaat ctggggagga	240
caaaggtgat ttctgtgtc cacatctaac aaatcaagat ccccggttg acttttggag	300
gttccttcca agtcttctg accaccttgc actattggac tttggaagga ggtgcctata	360
gaaaacgatt ttgaacatac ttcacgcag tggactgtgt cctcgggtgca gaaactacca	420
gatttgaggg acgaggtcaa ggagatatga taggcccgga agttgctgtg ccccatcagc	480
agcttgacgc gtggtcacag gacgattttc actgacactg cgaactctca ggactaccgt	540

cttccagaat gcacagatgt ctgaggacaa ccacctgagc aatactgtac gtagccaggt 900
acagcgtcag tytctnaaac tgccyygnc agactggatt cacttatcat ctcccctcac 960
ctctgagaaa tgctgagggg gstaggnagg gctttctcta ctnnaccaca ttnnataatt 1020
atTTTTGGGT gaccttcagc tgatecgtgg gagggacaca gggcttnttt aacacatagg 1080
gtgttgata cagncctcc ctaattcaca tttcanc 1117

<210> 157

<211> 540

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)..(540)

<223> where n may be either a or g or c or t/u, unknown or other

<400> 157

ctgcagcttt cctttaaact aggaagactt gttcctatac cccagtaacg atacactgta 60
cactaagcaa atagcagtca aacccaaatg aaattntac agatgttctg tgtcatttta 120
tnttgtttat gttgtctccc ccacccccac cagttcacct gccatttatt tcatattcat 180
tcaacgtctn nntgtgtaaa aagagacaaa aaacattaaa cttttttcct tcgttaattc 240
ctccctacca cccatttaca agtttagccc atacatttta ttagatgtct tttatgtttt 300
tcttttncta gatttagtgg ctgtttngtg tccgaaaggt ccacttcgta tgctggttga 360
aacagctcag gagagaaatg aaacgctttt tccagctctc atttactcct gtaagtattt 420
ggagaatgat attgaattag taatcagngt agaatttatc gggaacttga aganatgtna 480
ctatggcaat ttcanggnac ttgtctcatc ttaaataana gnatccctgg actcctgnag 540

<210> 158

<211> 509

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)..(509)

<223> where n may be either a or g or c or t/u, unknown or other

<400> 158

ccccgtcnat gcatacttttg tgtgtccagt gcttacctgg aatccngtct ttcccaacag	60
caacaatggg gtggttggtg aatatggcag aaggagaccc ggaagctcaa aggagagtat	120
ccaaaaattc caagtataat gcagaaagta ggtaactyyy nntagatamn atcttgattt	180
tncaggggtca ctgttataag ctaacagtat agnaatgttt ttatcgtctt tctnkgnca	240
tagactcctn kgagaatctc ttgagaacta tgataatgcc cagtaaatac ncagataagt	300
atttaaggag tncagatact caaancccaa caatacngtc aaagcatcct aggttaagac	360
amcncccatt aaatacagaa taccagcatg gaaagggtca ggctgagggt atgattgggt	420
ttgggttttg ggnnngtttt ttataagtca tgattttaaa aagaaaaaat aaactctctc	480
caaacatgta aaagtaagaa tctcctaaa	509

<210> 159

<211> 823

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)..(823)

<223> where n may be either a or g or c or t/u, unknown or other

<400> 159

caggagtgga ctaggtaaat gnaagntgtt ttaaagagag atgnngncng ggacatagtg	60
gtacacanct gtaatgctca ncactkatgg ggagtactga agngngnsgg atcacttgng	120
ggtcnggaat ntgagancag cctgggcaan atggcgaaac cctgtctcta ctaaaaatag	180
ccanaawnwa gcctagcgtg gtggcgcrca cgcgtgggtc cacctactca ggaggcntaa	240
gcacgagnan tncctgaacc caggaggcag aggntgtggg garctgagat cgtgccactg	300
cactccagtc tgggcgacma agtgagaccc tgtctccnnn aagaaaaaaaa aaatctgtac	360
tttttaaggg ttgtgggacc tgttaattat attgaaatgc ttctyttcta ggtcatccat	420

gcctggctta ttatatcatc tctattgttg ctgctctttt ttacattcat ttacttgggg	480
taagttgtga aatttgggggt ctgtctttca gaattaacta cctnngtgct gtgtagctat	540
catttaaagc catgtacttt gntgatgaat tactctgaag ttttaattgt ntccacatat	600
aggtcatact tggtatataa aagactagnc agtattacta attgagacat tcttctgtng	660
ctcctngctt ataataagta gaactgaaag naacttaaga ctacagttaa ttctaagcct	720
ttggggaagg attatatagc cttctagtag gaagtcttgt gcnatcagaa tgtttntaaa	780
gaaagggtnt caaggaatng tataaanacc aaaaataatt gat	823

<210> 160
 <211> 945
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)..(945)
 <223> where n may be either a or g or c or t/u, unknown or other

<400> 160	
gtnttccnaa ccaacttagg agnttggacc tgggraagac cnacntgatc tccgggaggn	60
aaagactnca gttgagccgt gattgcaccc actttactcc aagcctgggc aaccaaaatg	120
agacactggc tccaaacaca aaaacaaaaa caaaaaaaga gtaaattaat ttanagggaa	180
gnattaaata aataatagca cagttgatat aggttatggg aaaattataa aggtgggana	240
ttaatatacta atgtttggga gccatcacat tattctaaat aatgttttgg tggaaattat	300
tgtacatctt ttaaaatctg tgtaattttt tttcaggga gtgtttaaaa cctataacgt	360
tgctgtggac tacattactg ttncactcct gatctggaat tttgggtgtg tgggaatgat	420
ttccattcac tggaaaggtc cacttcgact ccagcaggca tatctcatta tgattagtgc	480
cctcatgncc ctgktgttta tcaagtacct ccctgaatgg actgngtggc tcatcttggc	540
tgtgatttca gtatatggta aaaccaaga ctgataattt gtttgtcaca ggaatgcccc	600
actggagtgt tttctttcct catctcttta tcttgattta gagaaaatgg taacgtgtac	660

atcccataac tcttcagtaa atcattaatt agctatagta actttttcat ttgaagattt 720
 cggctgggca tggtagctca tgcctgtaat cttagcactt tgggaggctg aggcggggcag 780
 atcacctaag cccagagttc aagaccagcc tgggcaacat ggcaaaacct cgtatctaca 840
 gaaaatacaa aaattagccg ggcattggtg tgcacacctg tagttccagc tacttaggag 900
 gctgaggtgg gaggatcgat tgatcccagg aggtcaagnc tgcag 945

<210> 161
 <211> 4
 <212> PRT
 <213> Homo sapiens

<400> 161

Tyr Pro Thr Phe
 1

<210> 162
 <211> 4
 <212> PRT
 <213> Homo sapiens

<400> 162

Ser Thr Pro Glu
 1

<210> 163
 <211> 19
 <212> DNA
 <213> Artificial Sequence

<400> 163
 cattcactga ggacacacc 19

<210> 164
 <211> 18
 <212> DNA
 <213> Artificial Sequence

<400> 164
 tgtagagcac caccaaga 18

<210> 165
<211> 18
<212> DNA
<213> Artificial Sequence

<400> 165
gcatggtgtg catccact 18

<210> 166
<211> 18
<212> DNA
<213> Artificial Sequence

<400> 166
ggaccactct gggaggta 18

<210> 167
<211> 18
<212> DNA
<213> Artificial Sequence

<400> 167
aaacttgat tgggagat 18

<210> 168
<211> 15
<212> PRT
<213> Homo sapiens

<400> 168

Asn	Asp	Asn	Arg	Glu	Arg	Gln	Glu	His	Asn	Asp	Arg	Arg	Ser	Leu
1			5					10					15	

<210> 169
<211> 15
<212> PRT
<213> Homo sapiens

<400> 169

Lys	Asp	Gly	Gln	Leu	Ile	Tyr	Thr	Pro	Phe	Thr	Glu	Asp	Thr	Glu
1			5					10					15	

<210> 170

<211> 15
<212> PRT
<213> Homo sapiens

<400> 170

Glu Ala Gln Arg Arg Val Ser Lys Asn Ser Lys Tyr Asn Ala Glu
1 5 10 15

<210> 171
<211> 15
<212> PRT
<213> Homo sapiens

<400> 171

Ser His Leu Gly Pro His Arg Ser Thr Pro Glu Ser Arg Ala Ala
1 5 10 15

<210> 172
<211> 19
<212> DNA
<213> Artificial Sequence

<400> 172
cagaggatgg agagaatac

19

<210> 173
<211> 19
<212> DNA
<213> Artificial Sequence

<400> 173
ggctcccaa aactgtcat

19

<210> 174
<211> 20
<212> DNA
<213> Artificial Sequence

<400> 174
gccctagtgt tcatcaagta

20

<210> 175
<211> 18
<212> DNA

<213> Artificial Sequence

<400> 175

aaagcgggag ccaaagtc

18

<210> 176

<211> 20

<212> DNA

<213> Artificial Sequence

<400> 176

tcacagaaga taccgagact

20

<210> 177

<211> 20

<212> DNA

<213> Artificial Sequence

<400> 177

cccaaccata agaagaacag

20

<210> 178

<211> 22

<212> DNA

<213> Artificial Sequence

<400> 178

tctgtacttt ttaagggttg tg

22

<210> 179

<211> 22

<212> DNA

<213> Artificial Sequence

<220>

<221> misc_feature

<222> (1)..(22)

<223> where n may be either a or g or c or t/u, unknown or other

<400> 179

acttcagagt aattcatcan ca

22

<210> 180

<211> 19
<212> DNA
<213> Artificial Sequence

<400> 180
gactccagca ggcatatct

19

<210> 181
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<221> misc_feature
<222> (1)..(20)
<223> where n may be either a or g or c or t/u, unknown or other

<400> 181
gatgagacaa gtnccntgaa

20

<210> 182
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<221> misc_feature
<222> (1)..(20)
<223> where n may be either a or g or c or t/u, unknown or other

<400> 182
ttagtggctg tttngtgtcc

20

<210> 183
<211> 20
<212> DNA
<213> Artificial Sequence

<400> 183
cacccattta caagtttagc

20